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MICHELL'S

SEEDS

1916

BULBS
PLANTS



**MICHELL'S
EVERGREEN LAWN
GRASS SEED**

Ready for mowing 4 to 5 weeks after sowing

25 CTS. PER QT., PER PECK \$1.00

\$4.00 PER (20 LB.) BUSHEL

**HENRY F. MICHELL
CO.
518 MARKET ST.
PHILADELPHIA**

**FERTILIZERS,
GARDEN TOOLS,
POULTRY SUPPLIES,
INSECT DESTROYERS**

**Nurseries,
Trial Grounds, Greenhouses,
Andalusia, Pa.**

EMPLOYMENT DEPARTMENT

Frequently we have on our register the names of competent gardeners, superintendents, coachmen, farmers and poultrymen who desire positions. We are always pleased to put them in communication with parties desiring their services, and we are also glad always to be on the lookout for such men for employers desiring their services. We are careful to recommend only reliable men, and there is absolutely no charge attached to this service for employer or the one employed.

The Michell Service PLEASE READ!

BUSINESS TERMS

We Especially Invite Charge Accounts. A charge account is more convenient than to remit for each order at the time it is sent us; you pay no more for your goods by reason of this accommodation. As to our responsibility, we refer you to **Dun's or Bradstreet's Mercantile Agency.**

When sending your first charge order, refer, preferably, to some one with whom you have a charge account.

REGARDS C. O. D. SH'PMENTS

Goods can be sent C. O. D., with the exception of perishable items, which include plants and cold-storage bulbs. These cannot be sent C. O. D. unless a partial remittance accompanies the order to guarantee acceptance of the goods.

CORRESPONDENCE in FOREIGN LANGUAGES

For the convenience of our customers who prefer their native language, we are pleased to announce that we are prepared to correspond in German and French. *Hier wird Deutsch gesprochen.* Ici on parle Français.

SHIPPING INSTRUCTIONS

Always state clearly by what method you want goods forwarded, otherwise we will ship according to our best judgment.

PLEASE ORDER EARLY

We shall greatly appreciate it if our customers will adopt our suggestion to send us their orders for **seeds, plants and bulbs** during January and February. Shipment need not be made until you need the goods, when they will be ready.

DELIVERY SERVICE

To points where baggage-master or package service is in operation, we can ship **all orders, which can be packed in one parcel or piece, not exceeding 50 pounds in weight**, free of transportation charges at prices quoted in this catalog. Fertilizers in more than 25-lb. lots, or bulky packages, are not accepted by baggage-master service. Our wagon delivery also covers many sections of Philadelphia.

SPECIAL ATTENTION

We have greatly increased our facilities for handling plant orders at our Nursery, and can promise prospective buyers in this line extra-good value. We make a specialty of hardy flowers, which department is in charge of a man with many years of practical experience.

INVITATION

All customers and others interested in horticulture or agriculture are cordially invited to visit our plant establishment at Andalusia Station (N. Y. Division of P. R. R.) about 16 miles from Philadelphia. In the spring, summer and autumn we invariably have interesting displays of hardy flowers, etc. This invitation applies to our city establishment as well, at 518 Market Street, Philadelphia.

SHIPPING FACILITIES OF PHILADELPHIA

Express—Wells-Fargo, Adams, American.

Freight—Baltimore and Ohio, Reading, Lehigh Valley and Pennsylvania Railroads.

Boat—Clyde Line, Merchants' and Miners' Steamship Company.

The above transportation companies, with their connecting lines enable us to ship quickly and economically all over the world.

HENRY F. MICHELL CO.

518 MARKET STREET - PHILADELPHIA, PA.

HENRY F. MICHELL, Pres. FRED'K J. MICHELL, Vice-Pres.

Warehouses, 509-511-513 Ludlow Street, Philadelphia, Pa.



ORDER BY TELEPHONE

We have a most modern system of over 50 phones, enabling our customers to receive instant attention. A special staff of experienced salespeople are reserved exclusively for the telephone service, so that our patrons may enjoy intelligent shopping from their homes.

TELEPHONE SERVICE

**SPECIAL ATTENTION
TO TELEPHONE ORDERS**

BELL SYSTEM— { 4220 4222 4224
Lombard { 4221 4223 4225
KEYSTONE SYSTEM—Main { 3600
3601

PARCEL POST SHIPMENTS

We pay postage and packing charges on all orders for vegetable and flower seeds, provided the order calls for packets, ounces, quarter-pounds and pounds (pints and quarts of beans, corn, cowpeas and mixed grass seeds, are **not included**), or such other seeds where mention is made in catalog. If all seeds are wanted by mail, remit for postage at the following rates. (Consult your post office for weight limits.)

Mailing weights of seeds usually ordered in measured quantity

Corn, 1 pint... 1 lb.	Peas, 1 quart... 2 lbs.	Lawn seed, 1 pint. 1/2 lb.
Corn, 1 quart... 2 lbs.	Beans, 1 pint... 1 lb.	Lawn seed, 1 quart. 1 lb.
Peas, 1 pint... 1 lb.	Beans, 1 quart... 2 lbs.	

We have also endeavored throughout our catalog to quote the weights of various articles that can be sent by Parcel Post. **Liquids** cannot be sent by Parcel Post.

No charge is made for boxes, packing or bags, except for two-bushel seamless sacks, 22 cts. each, which are returnable for credit at the price charged.

Henry F. Michell Company endeavors to send out only the very best quality of Seeds, Bulbs and Plants, but cannot guarantee results or crops. If customers do not accept our goods on the above conditions, they can be returned to us within ten days, if in original packages, free of expense to us.

IMPORTANT NOTICE

Index to contents of this catalog will be found on pages 239 and 240.

PARCEL POST INFORMATION

Please Include parcel post charges if goods are desired shipped by this method where remittance accompanies the order.

NOTE.—Limit of weight for delivery within the local, first and second zones, 50 lbs.; to all other zones, 20 lbs.

Parcel post is an especially convenient method of shipping to the outlying or rural districts. In compiling this Catalog we have endeavored to give the shipping weights on most sundries, where their nature, size and poisons are excluded from the mails. Seeds, as noted on the schedule for those whose prices do not include prepayment free. Where customers desire goods sent by parcel post and remittance accompanies their orders, postage should be allowed in accordance with the schedules named below on such items as are not sent prepaid by us. Plants and bulbs in aggregate lots (where not otherwise mentioned) in ½ dozen or less, require postage to the amount of 20% of their value. Over six and up to one dozen or more, where plants and bulbs are of a nature and weight, to permit parcel post shipment, allow for postage in the amount of 15% of their value. If you remit more than is necessary for postage we will refund the remainder to you.

Plants by Parcel Post is very unsatisfactory and uncertain, the service is full of delays and frequently when plants sent by this method arrive at their destination they are dead; we earnestly suggest to our customers the sending of plants by express (which rates are very reasonable now). We are then able to guarantee safe arrival, and invariably give larger and better plants.

TABLE OF PARCEL POST RATES

All parcels of seeds, bulbs and plants over 8 ozs., and sundries over 4 ozs. in weight come under these rates. Any less than 8 ozs. at the rate of 1c. for each 2 ozs., except sundries, which are at the rate of 1c. for each oz.

Local	Lbs.	1	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-35	36-37	38-39	40-41	42-43	44-45	46-47	48-49	50														
	Postage	5c	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30														
Zone 1 and 2 150 Miles	Lbs.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30										
	Postage	5c	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35									
Weight		1 lb.		2 lbs.		3 lbs.		4 lbs.		5 lbs.		6 lbs.		7 lbs.		8 lbs.		9 lbs.		10 lbs.		11 lbs.		12 lbs.		13 lbs.		14 lbs.		15 lbs.		16 lbs.		17 lbs.		18 lbs.		19 lbs.		20 lbs.	
Zone 3 300 Miles		6c		8		10		12		14		16		18		20		22		24		26		28		30		32		34		36		38		40		42		44	
Zone 4 600 Miles		7c		11		15		19		23		27		31		35		39		43		47		51		55		59		63		67		71		75		79		83	
Zone 5 1000 Miles		8c		14		20		26		32		38		44		50		56		62		68		74		80		86		92		98		1.04		1.10		1.16		1.22	
Zone 6 1400 Miles		9c		17		25		33		41		49		57		65		73		81		89		97		1.05		1.13		1.21		1.29		1.37		1.45		1.53		1.61	
Zone 7 1800 Miles		11c		21		31		41		51		61		71		81		91		1.01		1.11		1.21		1.31		1.41		1.51		1.61		1.71		1.81		1.91		2.01	
Zone 8 Over 1800 Miles		12c		24		36		48		60		72		84		96		1.08		1.20		1.32		1.44		1.56		1.68		1.80		1.92		2.04		2.16		2.28		2.40	

OF IMPORTANCE to HORTICULTURAL and AGRICULTURAL SOCIETIES

In 1911 we adopted the idea of the Michell Seed House Medals, for achievement in Horticulture, Agriculture and Poultry Raising. These are finished in three styles, Gold, Silver and Bronze. Such organizations are invited to avail themselves of the opportunity of having their members compete for these medals at various exhibitions. The only conditions we exact in connection with furnishing these medals without cost, is to have the privilege of naming the style of medal to be awarded for the respective exhibits; that the secretary also send us the name or names and addresses of the winners, so that we may have their name engraved on the medal, which are sent by insured parcel post in velvet-lined boxes. Further, that our house be given credit for the offer of these medals in all advertising literature and programs which refer to the respective exhibitions. This offer is not confined to products that are produced from our seeds, plants or bulbs only, but the medal may be competed for, regardless of from whom you get your supplies in this line, so that selfish motive is far removed. We are glad to have committees on awards confer with us freely for any horticultural or agricultural proposition, for which they desire to have these medals offered.

Civic organizations and School Garden Associations are especially invited to take advantage of these medal awards we offer.

P. S.—In Poultry Raising Awards only Special Bronze Medals are available.



Fac-simile of the Michell Medal about ⅓ larger than actual size.

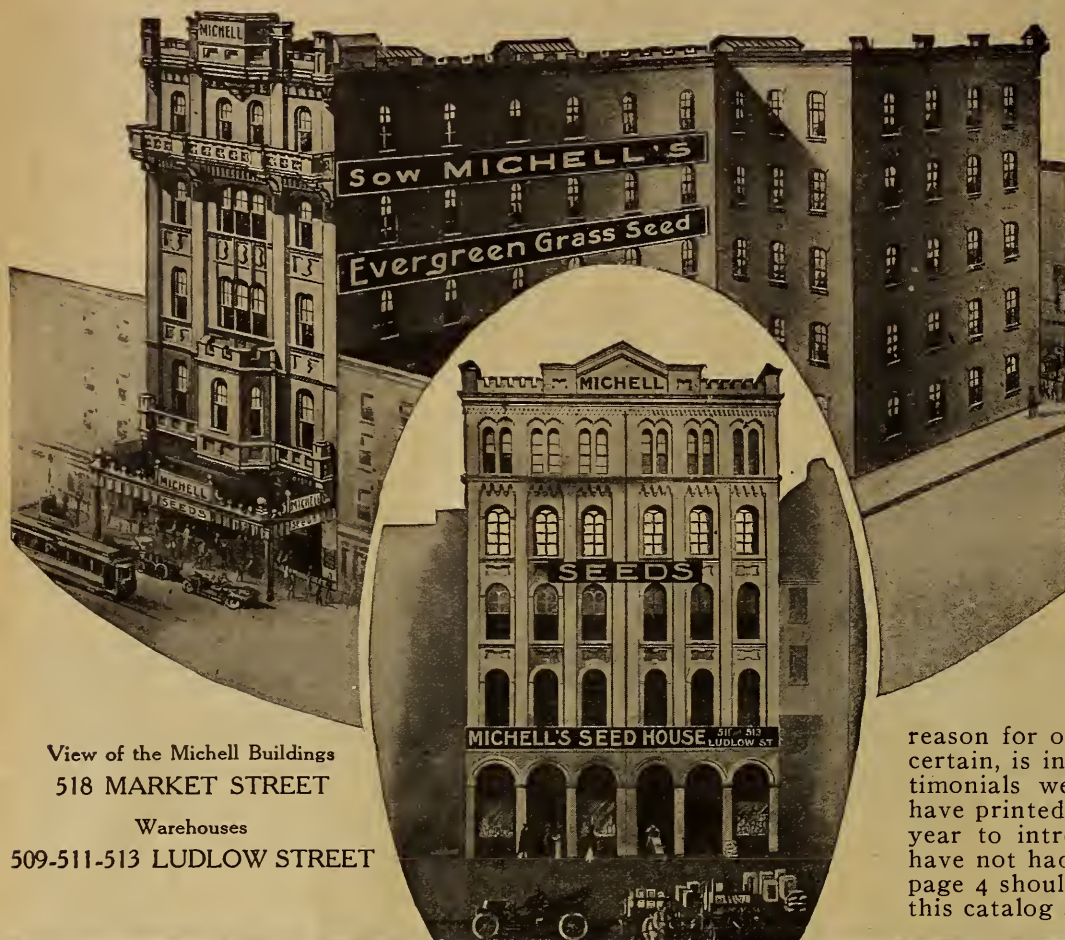
A CORDIAL INVITATION TO ALL

Customers and others interested are cordially invited to visit our Seed establishment at 518 Market St., Philadelphia, and also our Nurseries at Andalusia, Pa., when they feel so disposed (except Sundays). Our salesrooms, showroom and warehouses are carefully equipped and arranged for convenience. Our Nursery is easily accessible. Route cards can be obtained by mail or otherwise, giving directions for going by train, trolley or automobile. A visit there any time between May 1st and November 1st is always worth while. A visit entails no obligation.

THE MICHELL ESTABLISHMENTS 26th YEAR

In 1890 this business was established on a modest scale; it has since grown to be recognized as one of the leading institutions of its kind. Our salesrooms, offices and warerooms occupy a 5-story building and basement at 518 Market St., a 5-story warehouse and shipping department at 511-513 Ludlow St. and a 4-story warehouse at 509 Ludlow Street, manned by a well-trained organization of from 100 to 125 employees the year around. Our nurseries and greenhouses at Andalusia, Bucks Co., Pa., comprise 39 acres of highly cultivated land devoted to hardy perennials, cannas, bulbs of various kinds, dahlias, roses and countless other specialties, including distinct strains of choice flower seeds; 16 modern greenhouses, and some 1500 or more frames (glass covered) care for the many thousands of plants propagated annually and shipped all over the United States. Our nursery department employs a staff of from 25 to 45 men. The

reason for our constantly increasing business, we feel certain, is in a large measure voiced by the many testimonials we receive constantly, a few of which we have printed on page 4. It is of course necessary each year to introduce ourselves to many with whom we have not had the pleasure of serving, and we feel that page 4 should do this adequately with those who read this catalog and have not yet favored us.



View of the Michell Buildings
518 MARKET STREET

Warehouses

509-511-513 LUDLOW STREET

A PARTIAL VIEW OF MICHELL'S NURSERIES





PARTIAL VIEW OF OUR
SALES ROOMS
Considered by Outsiders to
be Finest Equipped Seed
Store in United States

OF IMPORTANCE TO THOSE WHOM WE HAVE NOT YET HAD THE PLEASURE OF SERVING



COMPLIMENTS from the Atlantic to the Pacific ON MICHELL'S SERVICE and GOODS

Catalog space is, to be sure, very valuable, but every once in a while we feel that it is proper in our own publications to acknowledge some of the complimentary remarks made us from time to time. Our customers are scattered all over the United States, as the testimonials will show. In a large measure we attribute our success to be due to the splendid advertisement of "satisfied customers," and we appreciate highly the confidence that has been placed in us by so many customers all over the world, we might say.

H. F. M. CO.

ALABAMA

Please be advised that I have received my order to-day and find everything all right, fine stock, liberal count and well packed.

J. C. CALDWELL,
Lewisburg.

ARKANSAS

All the seeds you have sent have done wonderfully well.

MRS. H. F. HOLBROOKE,
Elaine.

CANADA

Ship to Thunder Bay Country Club 200 lbs. of the best putting-greens grass seed, the same quality you shipped us last year, which was very satisfactory.

M. COCHRAN,
Imperial Bank of Canada,
Fort William.

CENTRAL AMERICA

Please send us the enclosed list of seed. We are 5000 feet above sea level and your seeds have always been very satisfactory.

H. A. OWEN,
Santa Lucia.

COLORADO

Last summer our folks sent us a box of your fine seeds. We never had such a fine garden. From a 25c. package of Gradus Peas we had several bushels of the finest peas we ever had. Please forward enclosed order.

W. M. WALTERS,
Brookvale.

CONNECTICUT

From the day I first bought from you, you have never sent me anything that has not given perfect satisfaction, and it has always been a pleasure to deal with you.

R. S. HANFORD,
Norwalk.

DELAWARE

The seeds that we ordered from you last spring gave us perfect satisfaction. We were very much pleased with the results from them all.

MRS. O. P. MOWBRAY,
Harrington.

FLORIDA

I received the potatoes all in first-class order. Many thanks for same.

JOHN L. GILLEN,
Lake Worth,
Florida.

GEORGIA

My Narcissus bulbs were unusually fine this year. Many of them sending three blooms. They were the finest I ever had.

MISS SUSIE BOOKER,
Columbus,
Georgia.

ILLINOIS

I wish to compliment your house on the excellency of its seeds and Cucumbers. I got highest prizes for these vegetables which I exhibited.

WM. H. BECKY,
Belmont Farms,
Palos Springs, Ill.

IOWA

The Roses arrived last evening in fine condition. I have planted about thirty 2-year-old roses from other firms this spring, but yours have them all beaten. If this represents the class of stock and method of shipping for your 2-year-old roses, then I know where to buy mine in the future.

E. W. SPROULE,
Peterson.

KOREA

Some seeds arrived from Mr. W. C. Erdman, of Taiku, Korea, which had been bought from you, make us confident of receiving good value; hence send order herewith.

GEORGE H. WINN,
Fusan.

MAINE

Just a few words in praise of your lawn grass mixture, with which I have had remarkable success here under trying conditions of both soil and climate. It germinates quickly and evenly and produces fine results the first year.

(Signed) HOWARD A. STOFFORD,
Chief Gardener, National Home for Disabled Volunteer Soldiers, Eastern Branch,
National Soldiers' Home.

MASSACHUSETTS

The Buddleya plants (Butterfly Bush) we received from you last spring reached a height of from 4 to 5 feet and were very heavy plants. They flowered very profusely and we cut quantities of blooms. When cut they made handsome sprays for funeral work and were fine for basket work, making striking effects in combinations, etc. In fact we used them in many ways and they proved very profitable.

(Signed) MARK AITKEN,
Florist, Springfield.

MICHIGAN

The shrubs were received to-day and were in first-class condition. Your earnest attention with this order has been greatly appreciated and we thank you for your courtesy.

H. A. BALDWIN,
Old Orchard.

MINNESOTA

The Lilies purchased from you last fall look very promising at this time. Absolutely free from disease.

KINDLER FLORAL CO.,
St. Cloud.

MISSISSIPPI

Azaleas received and they are the finest plants I have ever received.

THE MISSES CABANISS,
Jackson, Miss.

MONTANA

Last year we had some of your seeds for our experimental gardens. We "scooped" up the State awards at the annual show.

R. M. GREIG,
Anaconda, Mont.

NEW MEXICO

Bulbs received O. K.; are excellent. I want to tell you that you may count on selling me again.

PERRY ONION,
East Las Vegas.

NEW YORK

Have had Buddleya (Butterfly Bush) from you; most satisfactory, and last year "Helen Michell" Geranium was a wonder. Both brought to my notice at New York City Flower Show.

THEO. W. MOSES,
Brooklyn.

NIGERIA, BRITISH WEST AFRICA

Am enclosing an order for seeds with check for same. The seeds purchased from you by Mr. Walter Hoover have done well for us here.

(Signed) C. W. GUNTER,
Wukari.

NORTH CAROLINA

The splendid plants reached me in fine condition.

MRS. O. L. CLOUD,
Hamlet, N. C.

OHIO

The plants sent were certainly very fine. You will hear from me next spring with a much, yes very much larger order.

THEO F. BRYANT,
Dayton.

OREGON

The plants safely to hand. Many thanks for same.

(Signed) H. H. HUGHES,
Gladstone.

PENNSYLVANIA

I wish you could see the field of winter Vetch now in full bloom and of wonderful growth, from seed obtained from you last fall and sown at that time. It is a sight worth seeing and is worthy of a photograph. People along the road, in wagons, automobiles and buggies and those on foot stop to look at it with amazement.

It is certainly the best stand of Vetch I have ever seen and I certainly congratulate you on handling the quality of seed supplied me, which made this field possible.

HILLES FARMS,
Mechanicsville Road,
Doylestown, Pa.



THE VEGETABLE GARDEN

This is probably the most important part of the home grounds. From this garden one picks the luscious vegetables, and the nearer one can arrange to have it to the dwelling, the better it will be. It should not be considered objectionable, because all gardens in which any one takes pride are real show places.

LOCATION

Ground that has a Southern or Southeastern exposure is generally best when one desires early crops; in fact, it is a decided advantage if on the Northern and Western sides there is some protection—it might be termed “windbreak”—such as trees or shrubbery. A garden placed on the Southern or Eastern side of a stone wall or a building is generally a grand success.

SOIL

The soil should have good natural drainage and be reasonably light. It does not, of course, have to be light naturally, as this condition can easily be brought about by working in plenty of manure and by the addition of humus. (See page 48 of this catalogue.)

An enclosure around the garden, if it is practicable, such as a neat fence or a California privet hedge, will be found ideal and reasonable in cost.

ARRANGEMENT OF THE VEGETABLE GARDEN

It is sometimes hard to tell a person on paper how to lay out a garden, as conditions vary constantly. In practical experience, however, it has been found that the fewer paths one has in a garden, the better. There should be one main walk down the center and on either side should be the growing crops. It is always advisable to plant things in rows, as they can be cultivated much better, and right here we want to say, always arrange to plant your vegetable garden so you can work it with a wheel hoe—if it is on a large scale, with a horse cultivator. It is amazing how much useless work can be done in a garden if it is not arranged according to this plan. In this day of garden implements—and there is a tool for practically every purpose—there is no longer any excuse for doing otherwise. With a wheel hoe a man or a boy (in fact, ladies can use them) will in one half-hour cultivate a quarter-acre garden. One could not do this with a hoe in half a day, besides, it would be more tedious and does not accomplish anything like the results, and results is what we are all after in gardening.

The hotbed or cold frame should be close to the entrance. The small fruits, if any, asparagus, rhubarb, horse radish and other permanent crops, should be planted the farthest away from the entrance, as they are in use the shortest length of time, whereas the garden crops in general are being harvested during the whole growing season. In case the garden is of such size that the space cannot readily be spared for a hotbed, this can be located outside; an ideal place is against the brick or stone foundation wall of the house.

In planning the garden; or, rather, we should say in planting it, always keep in mind the importance of getting the greatest amount from a given space, for instance: between the rows of early peas, if they are planted far enough apart, just as they are about to be picked string beans, corn, or any other crops can be planted. When the onions have been taken out for the season turnips can be sown there, and so it goes all through the list. It is rather difficult to cite every instance, but the idea will be readily grasped.

PREPARING THE VEGETABLE GARDEN

If it is a new piece of ground on which a garden has not previously been located, and there is any tall grass, weeds, or other rubbish on it, cut it down, rake it together and burn it. In this way a great many obnoxious weed seeds can be destroyed.

In any event, a good, thick layer of well-rotted manure is essential. If the garden is large enough, plow it down; if smaller, use a spading fork. Harrow or rake it thoroughly in two directions to thoroughly pulverize the soil. This work should be done as soon as the frost is out of the ground, which in the latitude of Philadelphia is about March 20th.

Don't be afraid to begin your garden early, as it is far better to risk planting a few things and losing them by reason of a cold snap than to be a month behind your neighbors.

It has been found advantageous to plow or dig up the ground in the Fall. This frequently exposes grubs, worms and other insect pests which, if the ground is not turned up until Spring, have already gone down deep into the soil and play havoc with crops of different kinds. On the other hand, if the soil is turned up about the 20th of November they have not gotten below the depth of the plow or fork, and when thus exposed, perish. You would be surprised how few grubs, wireworms, and other undesirable pests you would be bothered with in the soil if this practice is followed up.

If liming is to be done it is also advisable to do it in the Fall, using what is known as air-slaked or hydrated lime and distributing it at the rate of a ton to the acre. Where this is not available, land plaster is a good substitute.

Always get the seed bed or place to be planted as fine as possible, with either a rake or a harrow. Seed comes up more easily and better if it does not have to work too hard.

FERTILIZERS

As stated in the previous paragraph, manure is the best thing to use. This is not always available, in which case commercial fertilizers, such as phosphates, bone meal, etc., must be resorted to. When these are used they can be thrown on the plowed ground and harrowed or raked in. It has, however, been found best to put them directly in the furrow that is to be planted. The seed should never be put directly on the fertilizer, but first a covering of soil over it and then the seed, so as to prevent the germination from being spoiled by burning. Many failures are traced to this.

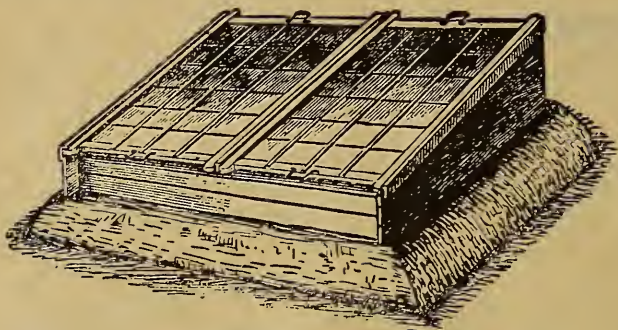
Such fertilizers as sheep manure and pigeon manure, when properly used, are of great value. If the latter is used, try, if possible, to get it unleached, in other words, manure that has not been exposed to the weather, as in the latter case all the nutritive qualities have been exhausted.

Commercial fertilizers are usually applied at the rate of 800 to 1000 pounds per acre, although greater quantities can be put on. Fertilizers containing potash are very essential for root development, and would therefore be applied to such crops as potatoes, corn, etc. On the other hand, nitrate of soda is used for such crops as peas, beans and the like.

SELECTING THE SEEDS FOR THE VEGETABLE GARDEN

About January 1st is not too early to look up one's requirements. Make a careful selection of what you want and don't be afraid to order liberally. We don't mean that you should be extravagant, but the cost of the seed is the smallest part of one's expense in vegetable gardening. It is better to have a little too much than too little. You will often hear the remark: "I wish I had planted more of so-and-so, it was really delicious."

We would call especial attention to the leaflets containing cultural directions, which are distributed without charge on application either by mail or in person. Simply order them by the numbers given. These cultural directions have been carefully edited and if followed cannot help but lead to success with the article in question. (See page 7.)



Hotbed with manure on top of the ground.

feet long. Have the one end a little higher than the other, so the water and snow can readily drain off. The manure should contain a certain amount of straw to enable air to work through it and should not be packed too tightly. The packing is done by tamping it with a board or pressing it down with the feet.

After the above has been done the frame should be made, if it does not already exist, and is placed on top of the bed with a Southern exposure. On top of this manure put about six inches of good garden soil or loam, which should have been prepared somewhat the previous Fall. At the time of year when the hotbed is made it can usually be handled, if not under cover, if a bright, sunny day is selected for this work. The frost will be pretty well out of it.

We show above a cross-section of a hotbed which is described above and which might be called a temporary hotbed. By temporary we mean that its location can be at one place one season, at another place the next season, or it may be abolished altogether for a season, at will.

The permanent hotbed is usually a construction of concrete, brick, or 2-inch yellow pine planks. The former two methods of construction are best. The beginning of the wall or frame should be fully 24 inches below the surface. This should be dug out and filled in with manure as advised above for the temporary hotbed; on top of this the soil. The manure, of course, regardless of the style hotbed employed, must be changed every season, as it does not carry its heat from year to year.

When the soil has been put on top of the manure the sash should be placed on top and it should then be allowed to heat up for two or three days. No seeds should be planted therein until the temperature falls to at least 78 degrees. This can be determined by use of a glass dairy thermometer or a regular hotbed thermometer thrust into the soil. Air must be given every mild day by raising the sashes at the back.

It will be found extremely valuable if a quantity of fresh manure is packed on the outside of any wooden frames, as this will hold the heat in the bed much longer when closed. When a hotbed can be built in close proximity to the house it is sometimes possible to run a line of hot water or steam pipe through it. This is usually done in an air space partitioned off by boards arranged underneath the soil. In such cases manure is not employed for heat—simply a layer of six or eight inches of good garden loam.

EARLY VEGETABLE CROPS

The hotbed is the foundation of a successful early garden. In it should be sown such seeds as early beets, cabbage, pepper, cauliflower, tomato, egg plant, spinach and parsley. It is a fact that by starting any of these things in this fashion, if the directions described in any of the leaflets afore-mentioned are followed, you can be fully a month earlier than by any other method. This work should be commenced, in the latitude of Philadelphia, about the middle of February or first of March.

Procure a quantity of fresh horse manure and form it into a bed not less than 18 to 24 inches deep. This can be on top of the ground or below the level. Above ground, however, is better. Providing you have not already a hotbed frame and sash the former can readily be made from some 1-inch rough boards 12 inches wide, 1 inch thick and in a length that would suit a given number of hotbed sash, the standard size of which is 3 feet wide, 6

feet long. Have the one end a little higher than the other, so the water and snow can readily drain off. The manure should contain a certain amount of straw to enable air to work through it and should not be packed too tightly. The packing is done by tamping it with a board or pressing it down with the feet.

After the above has been done the frame should be made, if it does not already exist, and is placed on top of the bed with a Southern exposure. On top of this manure put about six inches of good garden soil or loam, which should have been prepared somewhat the previous Fall. At the time of year when the hotbed is made it can usually be handled, if not under cover, if a bright, sunny day is selected for this work. The frost will be pretty well out of it.

We show above a cross-section of a hotbed which is described above and which might be called a temporary hotbed. By temporary we mean that its location can be at one place one season, at another place the next season, or it may be abolished altogether for a season, at will.

The permanent hotbed is usually a construction of concrete, brick, or 2-inch yellow pine planks. The former two methods of construction are best. The beginning of the wall or frame should be fully 24 inches below the surface. This should be dug out and filled in with manure as advised above for the temporary hotbed; on top of this the soil. The manure, of course, regardless of the style hotbed employed, must be changed every season, as it does not carry its heat from year to year.

When the soil has been put on top of the manure the sash should be placed on top and it should then be allowed to heat up for two or three days. No seeds should be planted therein until the temperature falls to at least 78 degrees. This can be determined by use of a glass dairy thermometer or a regular hotbed thermometer thrust into the soil. Air must be given every mild day by raising the sashes at the back.

It will be found extremely valuable if a quantity of fresh manure is packed on the outside of any wooden frames, as this will hold the heat in the bed much longer when closed. When a hotbed can be built in close proximity to the house it is sometimes possible to run a line of hot water or steam pipe through it. This is usually done in an air space partitioned off by boards arranged underneath the soil. In such cases manure is not employed for heat—simply a layer of six or eight inches of good garden loam.

EARLY VEGETABLE CROPS—Continued

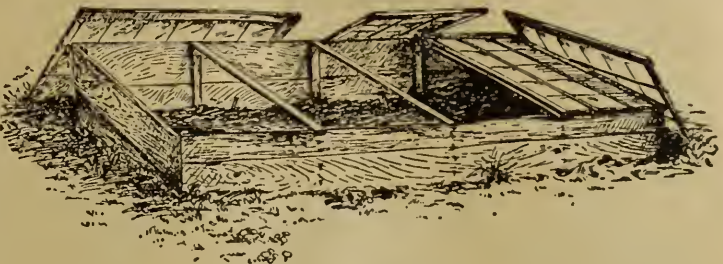
After the seed has been planted it is not generally necessary to ventilate until it starts to come up, when air must be given on every bright, reasonably warm day; in fact, you will find that the glass of a hotbed perspires freely and will soon cause the little plants to damp off unless ventilation is given. This can be controlled according to weather conditions, giving more or less, as required. At night it does not pay to take chances with the cold which we often get during the months of February and March. A covering of old carpet, salt hay, or some of the regulation hotbed mats will be found extremely valuable. In fact, where the climate is very cold a "shutter," as it is called, is essential for protection. This is an arrangement of tongued and grooved boards fastened together in sizes of 3 x 6, and these are laid directly on top of the mats or other covering used.

Watering should be done only on bright days and generally before noon, to allow it to either soak into the ground or evaporate otherwise to prevent danger of freezing during the night. Select bright, sunny days for watering and be sure to ventilate afterwards to allow any moisture on the foliage to dry off. When this is not done the plants frequently damp off or are attacked by fungous diseases.

Where a person desires to raise only one or two varieties of plants, and a small quantity, a box in front of a bright, sunny window in the house can be employed, in which case, of course, no manure is necessary. Very good results, with little outlay, are had in this way.

COLD FRAMES

Many people think that a cold frame and a hotbed is the same thing. No greater mistake could be made. In making up the former, while the formation is much like that of the hotbed, there is no manure used—in fact, no heating material of any kind. It is usually a little deeper than the regular hotbed, as it is intended to put in it plants that will endure a certain amount of cold, such as cabbage, cauliflower, etc. The protection can be supplied here by means of glass sash, shutters, or heavy plantbed cloth. We recommend the hotbed sash, as it is better and more easily handled.



A coldframe.

SOWING SEED

It is curious, but a fact, that many people undertake to sow and plant without ever reading the directions or suggestions that are given to apply to the particular thing of which they want to grow a crop. Some seeds require covering deeply, some should go hardly below the surface. Often when these directions are ignored, or no attention is paid to them, nothing but failure can result.

Although no definite rule can be laid down for depth of covering, the leaflets which we have previously referred to give this information concisely and if followed will spell success.

Plant things in rows as much as possible, as they can then be readily thinned out, which cannot be accomplished when they are put in beds. It is better to sow the seed too thickly than too thinly; sometimes weather conditions prevent a certain portion from germinating and a poor stand is the result unless it has been sown liberally. This rule applies alike to seed sown in hotbeds and outdoors.

WATERING

We have already suggested the method of watering hotbeds, yet there are frequently instances where seed is sown in temporary beds outdoors to be afterwards transplanted. This applies to cabbage, cauliflower, late tomatoes, celery, and other crops. In such cases water may be applied with a sprinkling can. About every other day, providing the ground is exceedingly dry, is right. When the seed is sown and the first sprinkling given no water should be applied for two or three days, after that every other day as occasion requires. It need not be a heavy drenching, as this often causes the seedlings to damp off. Most plants should be transplanted when they are not more than two or three inches high. If allowed to go beyond that they become spindly and tender, and will not withstand any great amount of exposure such as hot, dry weather, or cold, wet weather.

INSURING HARDY PLANTS

The kind we have previously suggested for sowing in hotbeds is much better off if, before being planted out in the garden, they are subjected to a certain amount of hardening. This is nothing more nor less than ventilation and less watering. The plants should not, however, be allowed to be checked in growth due to too little watering or too much ventilation. This can be watched readily. After they have been handled in this manner for about a week they can be taken up and planted outdoors providing the weather is suitable at this time. When transplanting always select the biggest, sturdiest specimens. There are usually plenty, and the poorest might as well be thrown away. In case the seed has been sown too thickly and has come up well, the thinning out process should be done in the hotbed before the plants are hardened off. If this is not done, as stated before, the plants are likely to become spindly.

MICHELL'S CULTURAL LEAFLETS

For the special benefit of the amateur (also the experienced gardener, if he wants them) we have prepared a series of instructions how to successfully grow some of the most important vegetables; they cover, in some instances, the proper cooking method and winter storage. **THESE LEAFLETS ARE FREE** and can be asked for at any time, whether accompanied by an order or otherwise. **Ask for them by number, it saves time.**

No. of Leaflets

- 101 Artichoke.
- 102 Asparagus.
- 103 Garden Beans.
- 104 Beets (Table and Cattle).
- 105 Brussels Sprouts.
- 106 Cabbage.
- 107 Carrot.
- 108 Cauliflower.
- 109 Celery.
- 110 Sugar Corn.
- 111 Cucumber.
- 112 Egg Plant.
- 113 Herbs (Kitchen Garden).
- 114 Kohl Rabi.
- 115 Lettuce.
- 116 Melons.

Special Notice.—We have just compiled, at great expense, a publication, entitled "Hardy Perennials and How to Grow Them." A copy is yours for the asking.

No. of Leaflets

- 117 Mushrooms.
- 118 Onions.
- 119 Peanuts.
- 120 Parsley and Parsnips.
- 121 Garden Peas.
- 122 Peppers.
- 123 Potatoes.
- 124 Pumpkin and Squash.
- 125 Radish.
- 126 Spinach.
- 127 Sweet Potatoes.
- 128 Swiss Chard.
- 129 Tomatoes.
- 130 Turnip and Ruta Baga.
- 131 French Winter Salads.

Special Note.—In addition to the Cultural Leaflets on Vegetables we have also prepared a series of Cultural Leaflets on Flowers, giving instructions how to grow Flowers successfully from seed. See page 111 of this Catalogue for list of these leaflets.

8 MICHELL'S CALENDAR OF MONTHLY OPERATIONS FOR FARM AND GARDEN

Valuable information for the Practical and Amateur Gardener and Farmer, which helps to remember when the different garden and farm operations should be performed.

Our suggestions apply to the latitude of Philadelphia. They must be varied according to location; earlier, if in the South; later, if in the North.

JANUARY

Vegetable Garden. Little can be done except preparing manure and getting tools, etc., in good working order.

Flower Garden. A topdressing of well-rotted manure will be of great benefit for all hardy plants. The lawn should receive a dressing of Sheep Manure (at the rate of 1000 lbs. per acre), which will insure a fine lawn during summer.

Orchard and Farm. Protect your Fruit Trees from the ravages of scale and other insects by spraying with Lime-Sulphur or other good scale destroyers. Prune Trees, Bushes, Grape Vines, if weather is suitable.

FEBRUARY

Vegetable Garden. Prepare hotbeds and sow early Cabbage, Lettuce, Radishes, Beets, Cauliflower and Onion. Now is the best time to topdress Asparagus Beds with manure; also give an application of Salt.

Flower Garden. Flowers, such as Pansy, Snapdragon, Carnations, Verbena, etc., etc., may be started in hotbeds or in the house, to be transplanted later.

Orchard and Farm. The instructions given for January apply for this month also.

MARCH

Vegetable Garden. Hotbeds must be finished now, and Tomatoes, Egg Plants, Peppers, etc., be sown for later transplanting. As soon as the soil is in good working order, sow late, Early Peas, Kale, Beets, Spinach, Carrots, Radish and Parsley. Set out Asparagus, Horse Radish Roots, Rhubarb and Onion Sets. Early plantings of Potatoes can be made.

Flower Garden. Pruning of Shrubs and Vines should be finished as soon as possible. The Bulb beds should be gradually uncovered, lawns raked off and topdressed, if not already done, with Bone Meal or similar fertilizer. Toward the end of the month, if the soil is dry enough, new lawns may be made and old lawns renovated. Sow Michell's Evergreen Lawn Grass Seed. Do not forget to sow some of our choice Sweet Peas. Hardy Flower Seeds should be started now, either in the hotbed or in boxes in the house.

Orchard and Farm. Finish whatever spraying or pruning there may be. Begin plowing and preparing the land for seeding. Late in the month Canada Peas, Oats and Essex Rape for early green food can be sown.

APRIL

Vegetable Garden. In this month most all kinds of seeds can be sown. Sow outdoors various garden seeds for succession, Beans, Beets, Brussels Sprouts, Carrots, Early Cauliflower, Cabbage, Celery, Kohl Rabi, Lettuce, Cress, Onion, Parsley, Parsnip, Radishes, Spinach, Peas. Continue to plant Potatoes, Asparagus, Rhubarb, Horse Radish Roots and Onion Sets, etc. Cauliflower, Cabbage and Lettuce Plants from hotbeds should be set out now, after they have been hardened by leaving the sash off. Sow in hotbed Cucumber, Egg Plant, Melon, Pepper and Tomatoes.

Flower Garden. This is a busy month for the lover of Flowers. All Bulb Beds and such plants that have been covered during the winter must now be uncovered. Pansies, Daisies, Forget-Me-Nots, Hardy Primroses, etc., should be planted out now. Sow all hardy varieties of Flower Seeds, as they will flower earlier. This is the ideal month for renovating and starting new lawns. Attention paid to the Rose Garden now will be amply repaid by abundance of flowers later on. Feed your roses with Bone Meal or Sheep Manure and as soon as growth commences spray once a week with Pyrox, Bordeaux Mixture or Readeana. The latter is the only remedy against the Rose Bug.

Orchard and Farm. This is the best month for planting Fruit Trees, as well as small fruit, like Raspberries, Blackberries, Currants, Gooseberries, Grapes, etc. Sow now Canada Peas, Oats, Rape, Clovers, Grasses, Spring Rye, etc.

MAY

Vegetable Garden. If the ground is in good condition, such tender vegetables as Cucumbers, Squash, Corn, Melons, Okra and Lima Beans, etc., may be planted as well as all hardier vegetables, especially Artichoke, Beans, Beets, Brussels Sprouts, Carrots, Cauliflower, Celery, Kohl Rabi, Leek, Lettuce, Onion, Parsley, Parsnip, Peas, Radishes, Salsify, Spinach, Early Turnips and all Herbs, etc. Finish planting Potatoes, Asparagus and Rhubarb. About the middle of the month it is quite safe to put out plants of Tomatoes, Egg Plants and Peppers.

Flower Garden. Annuals that have been started in the house or hotbed may now be transplanted to the open. Practically all hardy and half-hardy Annuals can be sown in the open ground. Keep your flower-beds well hoed or raked, to keep the weeds down, which will mean an immense saving of labor later in the season. About the middle of the month set out Dahlias, Gladiolus and Canna. Still a good time to sow Grass Seed.

Orchard and Farm. Most of the small fruit may yet be planted early in the month. Protect your Fruit Trees from the attacks of caterpillars, cut worms and other creeping insects by applying Tree-Tanglefoot. Plant winter root crops, like Mangelwurzel, Carrots, etc., also Field Corn, Clover Seeds and Grasses may also still be sown, and do not forget Alfalfa, the most valuable forage crop on the American farm today. Millet and most other fodder plants, like Broom Corn, Sugar Cane, Cow Peas, etc., can also be sown.

OF MONTHLY OPERATIONS FOR FARM AND GARDEN

Gardener and Farmer, which helps to remember when the

They must be varied according to location; earlier, if in the

JUNE

Vegetable Garden. Set out Tomatoes, Pepper, Egg Plants and Sweet Potatoes. All varieties recommended in May may be sown, especially those wanted for succession, as Corn, Beans, Cucumbers, Beets, Lettuce, Okra. This is the best month for planting Lima Beans, both Pole and Dwarf. Late Cabbage and Cauliflower should be sown to make plants for setting out for fall crop. Look out for insects and commence dusting or spraying with a suitable insecticide.

Flower Garden. It is still time to sow Annuals, especially Nasturtium, Aster, Marigold, Zinnia, etc. Most of these bloom until frost and are splendid for cutting. The Hyacinth and Tulip Beds should be dug up now and filled with such plants as Geraniums, Coleus and other bedding plants: Finish planting of Cannas, Dahlias and Gladiolus.

Orchard and Farm. Sow Mangelwurzel, Sugar Beets, Millets, Alfalfa, Cow Peas, Crimson Clover and Ruta-Baga.

JULY

Vegetable Garden. Cabbage, Celery and Cauliflower Plants should be set out now. Sow Peas, Beans, Corn, Cucumbers, Lettuce, etc., for succession crops, also Ruta-Baga for winter crop. Autumn Radishes, Kale, Spinach, Turnip, etc., should be sown.

Flower Garden. Tall Plants, as Gladiolus, Roses, Dahlias, Cosmos, etc., should be supported by plant stakes, to prevent their being blown down or broken off by storms.

Orchard and Farm. Sow Crimson Clover for soiling Millet, Alfalfa, Cow Peas, etc.

AUGUST

Vegetable Garden. All varieties of Turnips may be sown up to the end of the month. It is still time to sow Bush Beans, Corn Salad, Cucumber, Endive, Lettuce, Early Peas, Radish, Spinach and Kale. Set out late Cabbage and Celery Plants for winter use. This is the best month to make new plantations of Strawberries. Pot-grown plants will produce a good crop next season.

Flower Garden. Sow perennial Flower Seeds now, which will insure their blooming next season.

Orchard and Farm. Harvesting and regular routine work fills up this month. Sow Cow Peas, Buckwheat, Alfalfa, also Crimson Clover after the last working of the Corn.

SEPTEMBER

Vegetable Garden. Cabbage and Cauliflower should be sown this month to raise plants for wintering over in cold-frames. Early Turnips may still be sown, also Corn Salad, Cress, Lettuce, Mustard, Winter Radish and Spinach.

Flower Garden. Pansies, Daisies, Forget-Me-Nots, as well as all other hardy perennials, must be sown now. Lilium Candidum or Madonna Lily should be planted early this month. For winter flowering indoors plant Freesia, Oxalis, White Roman Hyacinths and Chinese Lilies. This is also one of the best months to renovate the lawn and sow Michell's Evergreen Grass Seed.

Orchard and Farm. Sow Vetches, Crimson Clover, Alfalfa, Timothy and any hay or pasture grass seeds.

OCTOBER

Vegetable Garden. Sow Spinach and Corn Salad outdoors. Make up the winter hotbeds and sow Radishes, Lettuce and Spinach for early winter use.

Flower Garden. All Fall Bulbs, as Hyacinths, Tulips, Narcissi, Crocus, Snowdrops, Squills, etc., etc., should be planted now. Still time to sow Grass Seeds, either for new lawns or for renovating old ones. Plants of Hardy Perennials and Shrubs should be set out now.

Orchard and Farm. Plant Fruit Bushes and Fruit Trees. Sow Timothy, Winter Wheat, Rye, Clover and Grass Seeds. Any idle land can be plowed now to bring insects to the surface.

NOVEMBER

Vegetable Garden. This is a busy month in the Kitchen Garden. All vegetables intended for winter use should be attended to before real winter weather sets in. Asparagus beds should have a liberal dressing of manure, and such vegetables as Onions, Cabbage, Spinach, etc., should be covered with two or three inches of leaves, salt hay or straw.

Flower Garden. Finish planting of all Bulbs for spring flowering. Topdress the lawn with Bone Meal, Wood Ashes or some other good fertilizer.

Orchard and Farm. Plant all kind of Fruit, Shade and Ornamental Trees and Bushes. Spray trees when the leaves have fallen, and later in the month some trimming may commence. Winter Rye may be sown as late as the 20th.

DECEMBER

Vegetable Garden. But little can be done this month, except making preparations for the following season. If possible, all empty ground should be dug or plowed this month, which will not only benefit the soil, but greatly facilitate work in the spring.

Flower Garden. If not already done, topdress your lawn with Bone Meal, Wood Ashes or other good fertilizer. Cover Hardy Perennials with litter, salt hay or straw.

Orchard and Farm. Spraying for San Jose Scale, trimming and pruning can be done now.

MICHELL'S VEGETABLE NOVELTIES and SPECIALTIES 9

We realize, of course, that the varieties, offered on this and the three pages following, are not all strictly new. At the same time they are worthy of special attention. The planter can select therefrom the most important part of his vegetable seed order.

BEET

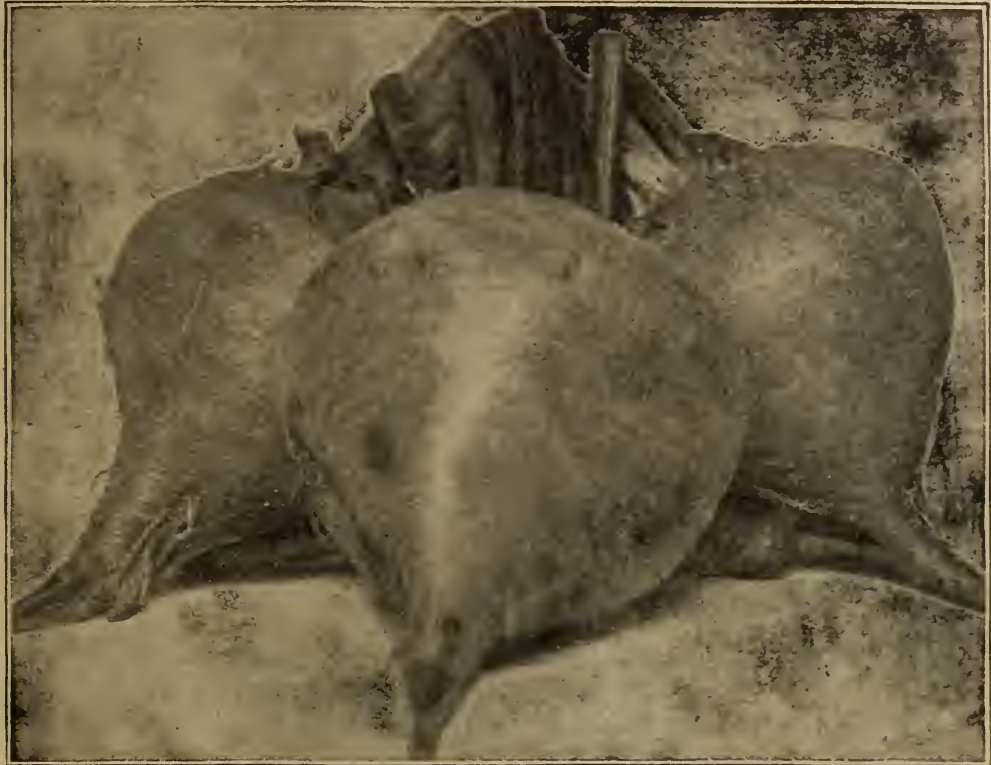
Michell's Ideal. This variety is the result of 11 years of hard and careful work by an expert vegetable grower in Bucks Co. It is a cross between Detroit and Eclipse, combining the excellent qualities of both, but is much better than either. It is perfect, firm, of turnip shape; for tenderness, rich color and uniformity it is remarkable. It is named Ideal, because, after the great length of time spent to bring it to its present state, the originator felt that he reached the ideal he was seeking in the beet line. It is primarily intended for garden culture as an early summer variety, but adapts itself also as an autumn and winter beet. We tried it ourselves and do not hesitate to recommend it with fullest confidence, knowing that it will give complete satisfaction. Don't fail to include some of it in your order. 10c. per pkt.; per ½ oz., 15c.; 25c. per oz.; ¼ lb., 85c.; \$3.00 per lb.

Michell's "Winter Keeper." This grand new beet is almost globe shaped, tapering slightly toward the root. The handsome dark blood red flesh is tender, regardless of size. The hard, stringy, wooden-like substance, so common in many varieties, is entirely absent in this sort. It is ideal as a late summer cropper, or for use during winter and spring, until new beets are on the market again. The top growth is green, the color remaining in the root.

Any market gardener, who wants his customers' return for future supply of beets, will do well to plant this one. For the home garden it is splendidly adapted. The cooking qualities and delicious taste may be called unsurpassed. The variety originated in Lancaster County, often referred to as the garden spot of the United States. Pkt., 10c.; 20c. per oz.; ¼ lb., 70c.; \$2.50 per lb.

Special Note.—In late years there have been very few introductions of good new beets; we can say without fear of contradiction that these two sorts, offered here, will fulfill more than the claims we made for them.

For other Beets, see page 18.



New Beet "Michell's Ideal"



Giant Podded Pole Lima Beans

"MICHELL'S EVERGREEN" LIMA BEANS

A variety which had its origin in Philadelphia. This remarkable pole lima equals the earliest for earliness, is far more productive than any other and retains at all times a beautiful green color. Pods contain on the average 5 to 6 beans. The pods hang in clusters, 6 to 8 in a bunch, which makes them very easy to gather. All who grow limas should have this valuable variety in the home or market garden. Pkt., 15c.; 35c. per pt.; qt., 60c.; \$2.00 per 4 qts.; peck, \$3.75.

GIANT PODDED POLE LIMA BEANS

This variety produces pods, frequently 8½ inches long, which are well filled with tender beans, which are of a most delicious flavor when cooked. Its producing qualities are phenomenal; combines a vigorous growth with numerous laterals, which yield quantities of pods in clusters, usually as many as 8 pods. These stand out well from the foliage, so that they can easily be picked. In this variety it is recommended to leave but 2 or 3 stalks to the pole. Giant Podded Pole Limas bear well up to frost. 10c. pkt.; 30c. per pt.; per qt., 50c.; \$1.75 per 4 qts.; \$3.00 per peck.

MICHELL'S VEGETABLE NOVELTIES AND SPECIALTIES

BEANS—Continued

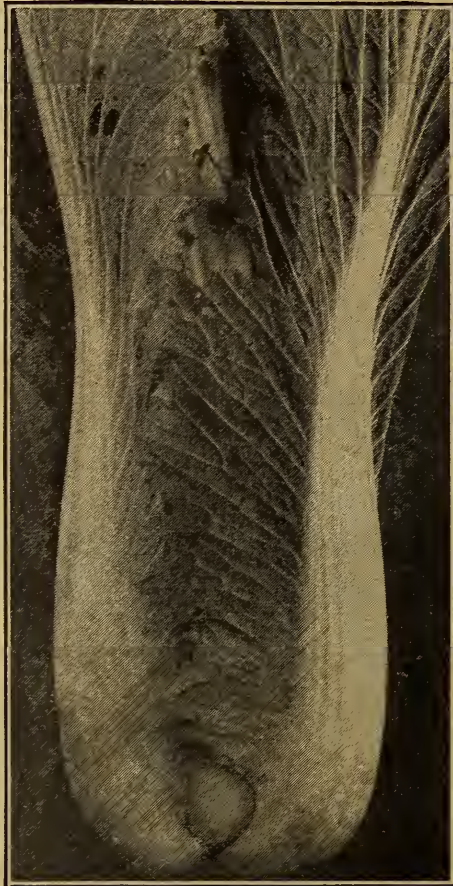
Michell's Improved Strain of Stringless Green Pod. This strain is without doubt the most tender string bean in cultivation, even when the pod has become quite old it still retains its stringless qualities; that, however, is not the only thing in its favor, it recommends itself through its extreme earliness, prolific and continuous bearing qualities and superior flavor. This variety can be planted successively through the entire season; its handsome round pods, often seven inches long, delight the eye of any housewife; they fairly melt in your mouth. The leading sort for the home garden. 35c. pt.; qt., 65c.

Michell's Improved Strain Dwarf Golden Wax (Rust Proof). This type far surpasses the old favorite in many points. Pods are formed quite early and in great profusion. The handsome masses of golden beans are very uniform, being broad, thick and almost solid flesh, exceedingly tender and brittle, with no coarse growth during any period of development. 35c. pt.; qt., 65c.

Fordhook Bush Lima. This variety is justly famous for being the earliest and most prolific of the Bush Limas. A great number of plants may be cultivated in a small space. The plant growth is dwarf and quite erect. The pods grow in clusters, well above the foliage, which makes gathering them no tedious job. The beans are thick, medium-sized and cook very tender. Every gardener, that plants some Bush Limas, should include this variety. 30c. pt.; qt., 50c.; \$1.75 for 4 qts.; per peck, \$3.00; \$12.00 bushel.

CHINESE CABBAGE (Pte-Tsai)

The American gardener as well as housewife might hesitate, in thinking, that anything of Chinese origin, be suited to their taste. This might be regarded especially true in vegetables. The plant is of upright growth, about 15 inches, sometimes more, sometimes less, soil conditions governing. It resembles in appearance and growth a head of Cos Romaine or Celery Lettuce, but possesses the attractive curly feature of Silesian Lettuces, and possesses a broad, wide rib. The heads are very firm, almost as Cabbage. The flavor is delightful, not at all like Cabbage, but rather on the order of Witloof Chicory or French endive. It may be served as lettuce, tasting better with salad dressing, or it makes excellent Cole Slaw when it is prepared exactly as one would prepare

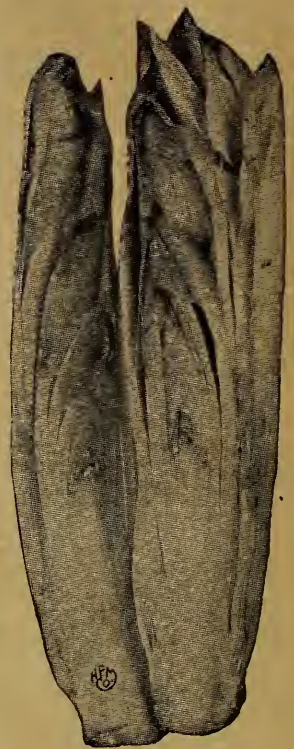


Chinese Cabbage

Cole Slaw from Cabbage. It may also be cooked as one would Cabbage, the flavor somewhat resembling Cauliflower. It can be planted as a spring or autumn crop; for latter the seed to be sown in July. The head does not become as high then as when sown in spring, and is adapted in that season rather as a Lettuce than as Cabbage. May be forced readily in cold frame. We are convinced that this vegetable will become popular very shortly. The small plants are handled much like Lettuce, except that they should be set out from 15 to 18 inches apart, the rows 2 to 2½ feet apart. They prefer naturally low or moist garden soil, although they will thrive in almost any soil conditions. Pkt., 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., \$1.00.

CHICORY OR WITLOOF

This delicious vegetable is becoming more popular each year. The roots are easily produced from seed, sown in May or June. They are taken up and wintered over, heeled in soil, or otherwise cared for in a frost-proof cellar, as one would care for Turnips, Carrots or similar crops. It is used only as a winter vegetable, the top part only being edible. While best results are obtained from planting the roots under a bench in the greenhouse, nevertheless a light, dry, warm portion of a cellar will serve the same purpose. In either case a bed of rich garden soil, about 12 inches deep, and in a size to accommodate whatever number of plants it is desired to force at one time. They should be placed about 6 inches apart each way. The top growth remains intact, as the illustration shows and may be cut any time after they have about 5 inches growth, before the heads begin to expand. Roots should be set in the ground the same depth as they were originally in the garden. A continuous supply of this delicious winter vegetable can be had from December 1st to April 1st. A cold frame makes also an ideal place for forcing them in the late winter or early spring months. Care should be taken, when grown indoors, to water occasionally, as conditions may demand. As one crop is used up, another should be planted, to secure a continuous supply. It is better, of course, if two beds are at one's disposal. We can furnish Witloof Chicory in roots or seeds.



Witloof Chicory

Strong roots, ready from December 1st until stock is exhausted. 10c. each; doz., \$1.00; \$7.00 per 100.

Seeds. 5c. per pkt. (large pkt., 10c.); ¼ lb., 45c.; \$1.50 per lb. If Chicory roots are wanted by mail, add 15c. per dozen for postage charges.

SUGAR CORN "EARLY GIANT WONDER"

Introduced by us several years ago with great success; it is a true sugar corn, combining the earliness of the hybrid kinds with the sweetness of the later varieties. The ears are large, well shaped and the kernels in rather even rows, so that it may readily be eaten from the cob. It is lusciously sweet and a variety that will recommend itself instantly to anyone who likes a delicious sugar corn. The demand for this is usually large, so that we are often not able to supply, and for this reason we recommend early ordering. Pkt., 10c.; 20c. per pt.; per qt., 40c.; \$1.25 per 4 qts.; per peck, \$2.25.

CELERY

White Plume (Michell's Private Stock). The standard early celery for market and the home garden. The stalks and heart, which blanch very quickly to almost a pure white, are very crisp and brittle. It can be used early in November and is of the finest quality. This strain of seed is a selection of the finest and best specimens, and will be found very superior in every way. Pkt., 10c.; 20c. per ½ oz.; oz., 35c.; \$1.00 per ¼ lb.

New York. One of the most popular leading sorts; it excels others of the self-blanching varieties, developing dwarfer, much larger bunches, with broad heavy stalks, which blanch very readily. The crisp, tender stalks, their freedom from stringiness, and excellent flavor, make this a great favorite. It is worthy of a first place as an early celery. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.

NEW HEAD LETTUCE "DAVEY'S IMPROVED STRAIN OF BIG BOSTON"

This seed is produced for us in a suburb of Paris, France, by one of the leading market gardeners there, where it created a heavy demand for this variety. The strain is far advanced of the usually good American "Big Boston" type of Lettuce. The outer leaves of the head are large and somewhat loosely set around a solid, buttery, well flavored heart or interior. We sold this variety extensively to some of our market gardener customers and many of them booked their order in advance for this season's supply, in event of a crop failure. It is ideal for hotbed culture in the early spring and autumn, while for summer growing it is one of the best. Per pkt., 10c.; 20c. per $\frac{1}{2}$ oz.; oz., 40c.; \$1.25 per $\frac{1}{4}$ lb.



New Lettuce "Davey's Improved Big Boston"

HEAD LETTUCE—MICHELL'S ALL RIGHT

This is not a variety for forcing, but rather for an early spring crop in the hotbed or outdoors; and for sowing in August for late autumn under sash or outside; where it is not affected by cold, which with some sorts turns them brown. On the other hand, this variety retains a rich green color. The heads are very large, often 12 inches in diameter, very solid and with a rich buttery heart of light yellow. Don't use this variety for a summer crop. Pkt., 10c.; 15c. per $\frac{1}{2}$ oz.; oz., 25c.; 75c. per $\frac{1}{4}$ lb.; lb., \$2.50.



MICHELL'S EXTRA EARLY "CRACKER JACK" TOMATO

For several seasons our customers have been getting splendid satisfaction from this variety. It is one of the earliest Tomatoes grown and a continuous bearer until frost, the latter being one of its chief characteristics, most early tomatoes having finished by the middle of September. The fruit is medium sized, brilliant red, very smooth and solid, with remarkably few seeds. Grows principally in clusters of from 5 to 10 tomatoes, which are invariably uniform in shape. Per pkt., 15c.; 25c. per 2 pkts.; per $\frac{1}{2}$ oz., 30c.; 60c. per oz.

GRAND NEW WATER MELON TOM WATSON

A very handsome large fruit, frequently 2 feet long and 12 inches in diameter. The dark green rind is a contrast to the bright scarlet flesh which, by the way, is of splendid texture and flavor; the sugary meat really melts in your mouth. Nothing can touch it in the melon line for shipping qualities, the rind being tough it will resist plenty of abuse. Pkt., 10c.; 15c. per oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 per lb.

MUSK MELON, DELICIOUS GOLD LINED

A boon to those who esteem quality in a Musk Melon. This variety is a selection of the well known, popular Rocky Ford, but the fruits run more uniform as to size and shape, and are densely covered with delicate lace-like netting. The flesh is green, margined gold next to the seed cavity, which is peculiarly attractive. The quality is superb. It is not merely sweet, but possesses that rich aromatic flavor known only in the best sorts. Pkt., 5c. and 10c.; 15c. per oz.; $\frac{1}{4}$ lb., 40c.; \$1.25 per lb.

ONION, YELLOW STRASBURG (or Dutch)

A dark straw color skinned sort, almost flat in shape but a large onion. Its fine keeping qualities is what recommends itself to the home as well as the market gardener. For a yellow sort it is rather mildly flavored; for growing sets more of this variety is sold than any other; one of the best winter keepers. Pkt., 5c. (10c. per large pkt.); oz., 25c.; 80c. per $\frac{1}{4}$ lb.; lb., \$3.00.

ONION WHITE BERMUDA

One of the leading white sorts, beautiful shape and mild flavor. An early variety, producing immense globe shaped bulbs, producing (if when transplanted about 4 inches apart) gigantic onions the first season. Pkt., 10c.; 15c. per $\frac{1}{2}$ oz.; oz., 25c.; 75c. per $\frac{1}{4}$ lb.; 1 lb., \$2.75.

RADISH, MICHELL'S IMPROVED STRAIN CARDINAL GLOBE

For greenhouse, hotbeds or for outdoors. Very early, mild, crisp and tender; it is one of the best radishes in the market. It has a very handsome, rich, bright scarlet color; it resists heat without becoming pithy. Michell's Cardinal Globe Radish should be planted in every garden for market as well as home use. In order to have a continuous supply, plantings should be made every ten days. Pkt., 5c.; 15c. per oz.; $\frac{1}{4}$ lb., 40c.; \$1.25 per lb.

MICHELL'S "SPECIAL" EXTRA EARLY PEAS



PEAS—Michell's Special Extra Early

The peer of all smooth-seeded sorts. The vines are about 24 inches high, the pods $2\frac{1}{2}$ to 3 inches long; they hold 5 to 7 peas each. The delicious flavor and sweetness, the tender quality and smoothness of Michell's Special Extra Early is well known to many satisfied customers. The extreme earliness of this sort distinguishes it from all others; as it produces the earliest crop of this delicious vegetable; its hardiness enables it to be planted as soon as the frost is out of the ground. Be sure to include some of this variety in your order. 25c. per pt.; per qt., 45c.; \$1.75 per 4 qts.; peck, \$3.25.

Harvester. This is a grand variety for the home garden. The past summer, under adverse conditions, this variety yielded handsomely compared with other varieties at our trial ground. The pods contain frequently as many as 10 peas of delicious quality. It is wrinkled, grows about 18 inches high and follows the extra early varieties. In quantity of production it compares favorably with the extra early kinds. Per pt., 25c.; qt., 40c.; \$1.50 for 4 qts.; peck, \$2.75.

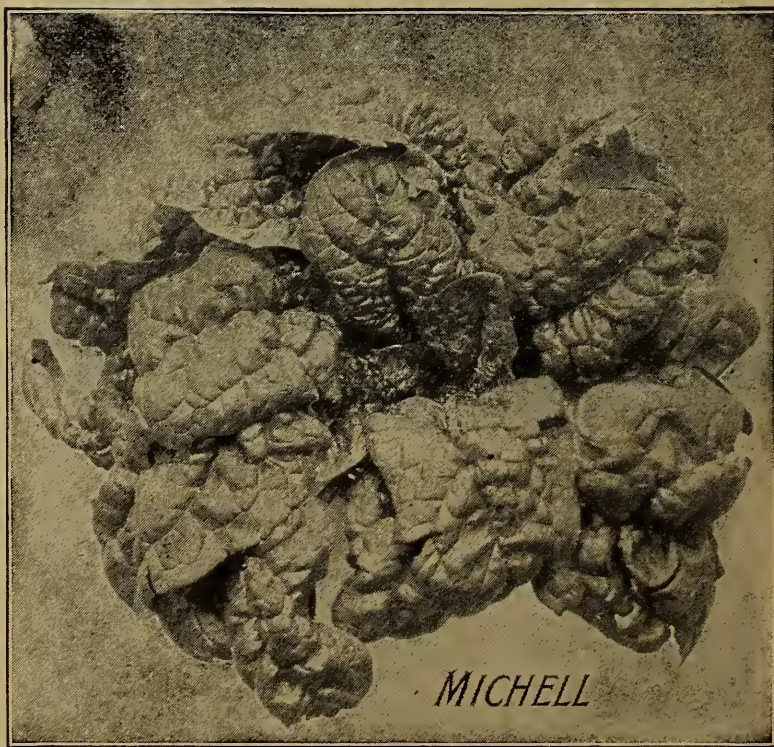
SWISS CHARD (Spinach Beet)

A wonderful vegetable which is known but too little. From every possible standpoint it has qualities that recommend its use in every household. Readily grown from seed, when it can be used five weeks after sowing and is a continuous crop until killed by frost. The plant does not produce a beet root, but its valuable part is all above the ground; large leaves with broad ribs grow from the centre; the outer leaves only should be carefully pulled from the plant; the foliage part separated from the rib. The former when cooked is served like spinach, which it resembles in taste; the ribs when boiled and served with melted butter are the equal of finest asparagus.

Giant Lucullus. Very tall growing; crinkly leaves often two feet long; a beautiful ornamental plant for any garden. Pkt., 5c. (10c. per large pkt.); oz., 15c.; 50c. per $\frac{1}{4}$ lb.; 1b., \$1.50.

SPINACH, BLOOMSDALE ROUND SEEDED SAVOY MICHELL'S IMPROVED STRAIN

The hardiest Savoy Leaved Spinach; the leaves are very thick and blistered, and this, combined with its hardiness, makes it a splendid sort for shipping and for home use. Our strain is carefully grown, reselected and is the best for early spring and fall sowing. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 20c.; 60c. per lb.



Spinach, Bloomsdale Improved Savoy

MICHELL'S "DISTINCTIVE" VEGETABLE SEEDS

ASPARAGUS

(*Asperges—Spargel—Esparrago*) (Sow 5 lbs. per acre, or 1 oz. to a 50 foot row)

Asparagus grows easily in almost any good soil, but best results are obtained in well enriched, deeply dug, sandy loam. A well cared for bed improves with age, and lasts for many years. It may be grown from seed, but much time is saved by planting roots. Seed should be sown thinly in early spring in rows 1 foot apart. Thin out the weakest plants so the remainder will be 4 inches apart. When 1 year old transplant in the permanent bed, from where it can be cut three years later. "Michell's Leaflet on Asparagus Culture" gives full information and is mailed free, or included in orders if asked for.

Michell's Giant Argenteuil (*Special Strain*).

Of all the varieties that we have extensively tried, this has been found to excel, both from a point of productiveness, tenderness, earliness and resistance to diseases. In size it is a giant, a marketable shoot or spear is often two inches in diameter and 12 inches long, of which every part when boiled is tender and delicious. It is the one variety that succeeds well in all soils and climates. Color, pure white, with a greenish purple tip. Pkt., 10c.; 20c. per oz.; $\frac{1}{4}$ lb., 40c.; \$1.25 per lb.

	Per 100	Per 500	Per 1000
Roots, 2-year-old ...	\$1.00	\$4.00	\$7.50
" 3 " ...	1.75	7.50	15.00

Barr's Mammoth. A variety producing heavy, stout spears of delicious flavor; the growth remains green when cooked; a very popular sort. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 25c.; 80c. per lb.

	Per 100	Per 500	Per 1000
Roots, 2-year-old ...	\$0.75	\$3.00	\$5.50
" 3 " ...	1.50	6.50	12.50

Conover's Colossal. A large, prolific sort, similar to Barr's Mammoth, but the stalks are a trifle larger and lighter in color. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 20c.; 50c. per lb.

	Per 100	Per 500	Per 1000
Roots, 2-year-old ...	\$0.75	\$3.00	\$5.50
" 3 " ...	1.50	6.50	12.50

Palmetto or Eclipse. One of the earliest, producing uniform stalks, prolific and finely flavored; color, green. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 20c.; 50c. per lb.

	Per 100	Per 500	Per 1000
Roots, 2-year-old ...	\$0.75	\$3.00	\$5.50
" 3 " ...	1.50	6.50	12.50

Copy of Testimonials

Lawnside, N. J.

I also desire to say the seed I purchased from you last year gave excellent results.

MRS. CHAS. DOUGLAS.

Colorado Springs, Colo.

Mrs. Hopkins wishes me to state, that the seeds purchased from you, have proved very successful and she is more than pleased with the results.

Secretary for Mrs. B. H. Hopkins.



Michell's Giant Argenteuil Asparagus



Green Globe Artichoke

Ask for Special Leaflet No. 101 on Artichoke Culture.

ARTICHOKE PLANTS (Green Globe) (Ready in April)

We grow a large stock of these, for those who do not care to bother with them from seed, thus they can be assured of an early crop. The cultural and cooking method is fully explained in Leaflet No. 101. \$1.50 per doz.; 25 for \$2.50; \$10.00 per 100 (by express only).

ARTICHOKE ROOTS (Jerusalem) (Ready in April)

Sometimes called the American Artichoke, used for table and stock feeding. Cut the tubers to single eyes and plant them like potatoes, 3 to 4 feet apart each way, placing three or four tubers in a hill. Leave the tubers in the ground and dig them as wanted; they are hardy. Cultural and cooking method is fully explained in Leaflet No. 101. 15c. qt.; peck, 75c.; \$2.75 per bu.

ANISE HERB (Annual, not Hardy)

Frequently used for flavoring and medicinal purposes. Cultural directions for this and other herbs is given in Leaflet No. 113. Pkt., 5c.; 10c. oz.; ¼ lb., 35c.

BALM HERB (Annual, not Hardy)

Leaves are used for making wine, tea, etc. As a food for bees the flowers are invaluable. Cultural directions are given in Leaflet No. 113. Pkt., 5c. and 10c.; 30c. per oz.

ARTICHOKE

Artichaut—Artischoke
Alcachofa

1 Ounce will produce
500 plants

Sow seeds in January in greenhouse or in hotbeds in March or outdoors in May, if sown outdoors transplant when large enough in rows 3 feet apart, 2 feet apart in the row. Cultivate when growing, freely, and protect the plants in winter with leaves or straw.

Green Globe. Pkt., 10c.;
25c. ½ oz.; 1 oz.,
50c.; \$1.50 per ¼ lb.

BORAGE HERB (Annual, not Hardy)

The leaves are used principally for mixing with salads and for flavoring, bees also thrive on the bloom, which is rich in honey. Culture is given in Leaflet No. 101. Pkt., 5c.; 10c. per oz.; ¼ lb., 35c.

BROCCOLI One Ounce will Produce 3000 Plants Broccoli—Spargelkohl—Broccoli

A vegetable much resembling cauliflower and often grown where the latter does not thrive. The cultural method is much like that for Cauliflower planted outdoors, which is given in Leaflet No. 108.

White Cape. Pkt., 5c. and 10.; 15c. ½ oz.; oz., 30c.; \$1.00 ¼ lb.



Brussels Sprouts

BRUSSELS SPROUTS

Chou de Bruxelles—Rosenkohl
Berza de Brusels

One Ounce will produce
3000 Plants

Sow seed about May 15th; transplant when about 4 ins. high in rows 3 feet apart, 2 feet in the row. When heads begin to crowd, the lower leaves should be broken from the stem of the plant to give them plenty of room. They are best for cooking after they have had a slight frost. For complete cultural method ask for Leaflet No. 105.

Matchless Improved.
Pkt., 5c. and 10c.;
15c. per ½ oz.; oz.,
25c.; 60c. per ¼ lb.;
lb., \$2.00.

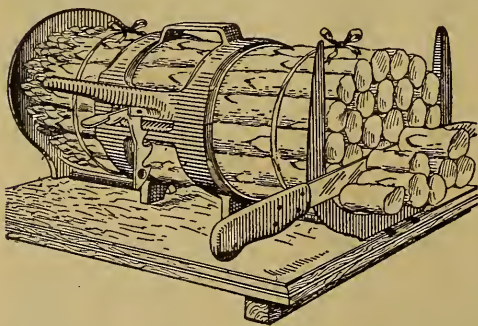
BRUSSELS SPROUTS PLANTS

(Ready in July)

25 for 20c.; 50c. per
100 (by mail, 65c.); per
1000, \$3.50.

ACCESSORIES FOR GROWING AND MARKETING ASPARAGUS

It is well to have the necessary equipment when growing this luscious article, whether used for home consumption or market, it is more valuable when properly cut, bunched and tied.



ASPARAGUS BUNCHERS

Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$1.75. P. P. Wt., 7 lbs.

BOOKS ON ASPARAGUS

By Hexamer, 50c. per copy.

By Michell, 10c. per copy.

The latter book included free with all seed orders where asked for.



ASPARAGUS KNIVES

Bateman's (see cut)\$0.35

American. V-shaped blade45

RAFFIA (Tying Grass)

The ideal material for tying asparagus bunches in a neat and economical manner.

¼ lb. 1 lb. 5 lb.

Natural\$0.08 \$0.20 \$0.90

Colored in various shades .20 .60 2.50

RAFFIATAPE

A linen and paper composition, in bolts of 250 yards; color, Nile green. Per bolt, 75c.; 6 for \$4.25.

JUTE TWINES

Very soft and pliable, 2-, 3- and 5-ply. 10c. per large ball; lb., 20c.

ASPARAGUS TAPE

Fast red, water-proof, in 1000-yd. spools, \$2.25 each.

ASPARAGUS SALT (Agricultural)

Applied in the spring for destroying weeds; 600 to 800 lbs. per acre. \$1.00 per 100 lbs.; 200 lbs., \$1.50; \$10.00 per ton.

ASPARAGUS FERTILIZER

Compounded after a formula recommended by the Department of Agriculture; apply 600 lbs. per acre. \$2.00 per 100 lbs.; 200 lbs., \$3.75; \$32.00 per ton.



Getting Michell's (Improved Strain) Stringless Green Pod Beans ready for Market

DWARF GARDEN BEANS (Green Podded)

Haricots Nains—Buschbohnen—Fagioli Nani

Plant $1\frac{1}{2}$ Bushels per acre. If desired by mail add 8c. per Pint, 15c. per qt. for postage.

Sow in rows 2 feet apart, using about 1 quart to every 100 feet of drill, keep the soil well stirred between the rows. Plant when all danger of frost is past in succession once every week until 8 weeks before frost. Cultural Leaflet No. 103 is very explicit on bean growing; ask for a free copy.

VERY SHORT CROP

ALL VARIETIES 10c. PER LARGE PKT. POSTPAID

If beans are wanted by parcel post, allow for mailing. 1 pint weighs 1 lb., 1 qt. weighs 2 lbs.

Michell's Improved Strain of Stringless Green Pod. This strain is without doubt the most tender string bean in cultivation, even when the pod has become quite old it still retains its stringless qualities; that however is not the only thing in its favor, it recommends itself through its extreme earliness, prolific and continuous bearing qualities and superior flavor. This variety can be planted successively through the entire season; its handsome round pods, often seven inches long, delight the eye of any housewife; they fairly melt in your mouth. The leading sort for the home or market garden. Pt., 35c.; 65c. qt.

Stringless Green Pod (Usual Strain). While this is a good type, the Improved Strain offered above is worth the difference. Pt., 30c.; 60c. qt.

Red Valentine (Usual Strain). This is the old-fashioned favorite, from which the above is a distinct selection. 20c. pt., qt., 40c.

Michell's Improved Red Valentine. A carefully selected stock of this well-known variety; its popularity is due to the fact that it is one of the earliest sorts, maturing often in 45 to 50 days. It can withstand early slight frosts without injury; its foliage is immense, it always produces a heavy crop of long round deep colored pods, which if wanted in a tender stage should be picked while young, in this condition they are absolutely stringless. On account of its prolific habit, and large pod, it is desirable for market purposes, while for the home garden few can equal it. Pt., 25c.; 50c. qt.

FARMOGERM (Nitrogen Gathering Bacteria)

This wonderful preparation will revolutionize your bean crop, both in quantity and length of bearing time. Use according to directions and always mention the crop for which it is wanted. Trial Bottle for Garden, 25c.; 50c. per $\frac{1}{4}$ acre bottle. (See page 57 for particulars.)

Note.—The bean crop is one of the smallest harvested in many years and we believe there will not be enough to supply all orders; so better place your needs at once.

16 MICHELL'S GARDEN BEANS, GREEN PODDED VARIETIES—*Continued*

Special Note.—Beans have not been so scarce for years, and customers are advised to order their requirements in this line as early as possible, as the supply will be very short. We have kept our prices on these just as low as possible and believe that it will be necessary for us to revise them by advancing the price to conserve the supply.

Large Packets of Beans, all varieties, 10c. postpaid

Best of All. A highly desirable sort for private garden use, the pods are long, set early and yield in great abundance; very tender. Per pt., 20c.; 40c. per qt.

Black Valentine. Pods very long and slender, round and well flavored. Per pt., 25c.; 45c. per qt.

Early Long Yellow Six Weeks. The word yellow refers to the seed only, pod flat, very early, tender and long. Per pt., 25c.; 45c. per qt.

Early Mohawk. This variety can be planted before any other sort, being quite hardy, large cropper, flat pod. Per pt., 25c.; 45c. per qt.

Extra Early Refugee. An extremely early, fleshy, round-pod variety. 25c. per pt.; per qt., 45c.

Full Measure. Produces a round stringless pod of fine quality and flavor; it is very prolific and will please the home gardener. 25c. pt.; qt., 45c.

Mammoth Stringless or Giant Valentine. An improvement on Burpee's Stringless Green Pod and, while not so prolific, makes a much larger pod. Per pt., 30c.; 60c. per qt.

Triumph of the Frames. For forcing this is especially desirable, the pods are round, thin and tender but very long. It is also suitable for outdoor planting. Per pt., 40c.; 75c. per qt.

Longfellow. A splendid green string bean, with extra long well-formed pods; tender, early and delicious; very prolific and profitable to grow. 25c. pt.; qt., 45c.

Sion House. A round-podded sort, suited to forcing. A great producer, excellent also for sowing outdoors. 30c. per pt.; per qt., 60c.

DWARF BEANS FOR SHELLING (Winter Use)

If there is any vacant space in the garden it always pays to plant some of these varieties. For soups, baked beans, etc., they are grand. They can be used in the green state like other sorts, but for the first-named purpose they are best.

Boston Navy or Pea. For soup and baking purposes. Per pt., 20c.; 35c. per qt.

Broad Windsor. An English bean used in the dry state shelled. Plant in rows about 3 feet apart, about 8 inches apart in the row. Per pt., 25c.; 45c. per qt.

White Kidney or Royal Dwarf. Per pt., 25c.; 45c. per qt.

White Marrowfat. Per pt., 20c.; 40c. per qt.

Dwarf Horticultural. One of the best shell beans grown, the pods are colored red and green, the bean is large, round and speckled. Per pt., 25c.; 50c. per qt.

WAX OR YELLOW PODDED BEANS

These should not be planted quite as early as the green varieties, they being more tender are liable to rot.

Michell's Improved Strain Dwarf Golden Wax (Rust Proof)

This type far surpasses the old favorite in many points; the plants are very vigorous and thereby rust-resisting. Pods are formed quite early and in great profusion. The handsome masses of golden beans are very uniform, being broad, thick and almost solid flesh, exceedingly tender and brittle, with no coarse or fibrous growth during any period of development. Per pt., 35c.; 65c. per qt.

Dwarf Golden Wax Rust Proof (Usual Strain). Per pt., 30c.; 60c. per qt.

Black or German Wax (Pencil Pod Strain). A round-podded, hardy sort, entirely stringless, very early and desirable. Per pt., 35c.; 65c. per qt.

Stringless White Wax. A very hardy variety for early planting, makes a beautiful pod almost pure white. Per pt., 35c.; 65c. per qt.

Currie's Rust-Proof Wax. An improved type; a tremendous yielder with long flat pods. Per pt., 35c.; 65c. per qt.

Round-Podded Kidney Wax. A vigorous grower, producing very fleshy pods, entirely stringless and rust-proof. Per pt., 35c.; 65c. per qt.

Valentine Wax. The earliest wax bean in cultivation; pods round, rust-proof and very fleshy; entirely stringless. Per pt., 35c.; 65c. per qt.

Wardwell's Kidney Wax. A favorite market-bean; bears very long, broad pods in great abundance; one of the best late sorts; excellent quality; free from rust; a reliable cropper. Per pt., 35c.; 65c. per qt.

Davis' White Wax. A long slender-podded sort, almost white, very fine. Per pt., 35c.; 65c. per qt.

FARMOGERM. A high grade nitrogen bacteria used in growing garden beans, produces wonderful results. 25c. per garden size bottle; $\frac{1}{4}$ acre bottle, 50c.



Michell's (Improved) Golden Wax Bean

Note—If Beans are wanted by mail, allow for postage. 1 pt. weighs 1 lb.; 1 qt. weighs 2 lbs.



Michell's Evergreen Pole Limas

LIMA BEANS

One quart will plant 100 hills; 12 to 15 qts. per acre

Plant when all danger of frost or cold nights is over, don't be afraid to put a liberal number in a hill, as this is cheaper than replanting; often one bean germinates where another won't, even on the same hill.

POLE VARIETIES

Michell's Evergreen (see illustration). A variety which had its origin in Philadelphia. This remarkable pole lima equals the earliest for earliness, is far more productive than any other and retains at all times a beautiful green color. Pods contain on the average 5 to 6 beans. The pods hang in clusters, 6 to 8 in a bunch, which makes them very easy to gather. All who grow limas should have this valuable variety in the home or market garden. Pkt., 15c.; 35c. per pt.; qt., 60c.; \$2.00 per 4 qts.; peck, \$3.75.

Carpenteria. A variety that retains its green color in all stages of growth, even after being dried, with this it combines wonderful prolificness, flavor and size, a good early variety, 3 to 4 beans in a pod. Pt., 20c.; 35c. per qt.; 4 qts., \$1.25; \$2.25 per peck; bushel, \$8.00.

POLE VARIETIES—Continued

Dreer's Improved Potato or Challenger. Early and more prolific than the Large Lima; beans small, extra quality. 20c. per pt.; per qt., 35c.; \$1.15 per 4 qts.; peck, \$2.15; \$8.00 per bu.

Giant Podded. This variety is fully a week earlier than King of the Garden. It is a prodigious cropper, producing its pods in large clusters. These are well filled with large fleshy beans of excellent quality. 30c. per pt.; per qt., 50c.; \$1.75 per 4 qts.; peck, \$3.00; \$12.00 per bu.

King of the Garden. Vigorous grower, producing a continuous bloom and fruitage to extreme end of season. Pods are of enormous size, many specimens measuring from 5 to 8 inches, producing as high as six beans to the pod, perfectly formed and of superior quality. 15c. per pt.; qt., 30c.; \$1.10 per 4 qts.; peck, \$2.00; \$8.00 per bu.

Michell's Selected Large Jersey. Has proven exceedingly satisfactory; beans are very tender and luscious. An extra selection of seed stock; large fine beans, all hand picked. 20c. per pt.; qt., 40c.; \$1.25 per 4 qts.; peck, \$2.25; \$9.00 per bu.

Shotwell's Improved. An extra early sort similar to Dreer's Improved but much more desirable. It is sweet and tender, being one of the first Limas in the market. 20c. pt.; qt., 35c.; \$1.25 per 4 qts.; peck, \$2.00; \$8.00 bu.

BUSH LIMAS

Bush Limas should be planted for early crops, as they come into bearing much sooner, but are not so prolific as the pole varieties.

Fordhook. This is the best type of bush lima in cultivation, it has a distinct upright vigorous growth; the pods, which are borne in clusters well above the ground, frequently contain as many as 4 thick luscious beans. It matures very early and continues in bearing till frost. Pt., 30c.; qt., 50c.; 4 qts., \$1.75; \$3.00 per peck; bu., \$12.00.

Burpee's Improved Bush Lima. This is so far ahead of the old strain of Burpee's Bush Lima, that it should be used instead; the bean is thicker, sweeter and earlier, being also more prolific. Pt., 25c.; qt., 50c.; 4 qts., \$1.75; \$3.00 per peck; bu., \$12.00.

Burpee's (Old Variety). A true, large-seeded lima in dwarf form. 20c. per pt.; per qt., 35c.; \$1.25 per 4 qts.; peck, \$2.00; \$8.00 per bu.

Henderson's. The earliest sort, beans are flat, very small and tender, of excellent flavor. Pt., 20c.; qt., 30c.; \$1.00 for 4 qts.; peck, \$1.90; \$7.60 per bu.

Special Note.—On page 7 is listed a complete set of cultural leaflets as applied to Vegetable Growing. These are free with orders if asked for or otherwise. Everyone is invited to ask for these, and we will cheerfully supply them.

POLE STRING BEANS (NOT LIMA)

Plant in hills 4 feet apart, four or five beans in a hill, eyes downward, afterward thin to three plants in a hill.

Early Golden Cluster Wax. Pods very tender, 6 to 8 inches long, of large size, borne profusely in large clusters of 3 to 6 beans; beautiful golden yellow color, which they retain after being picked. Pt., 25c.; qt., 50c.; 4 qts., \$1.75; \$3.25 per peck; bu., \$12.00.

Horticultural or Speckled Cranberry. Speckled red and green pod. Used extensively for shelling, very prolific, and a late cropper, long pods usually containing from 9 to 12 beans. Pt., 20c.; 35c. per qt.; 4 qts., \$1.25; \$2.25 per peck; bu., \$9.00.

Kentucky Wonder (Old Homestead). (Green Pod.) One of the best green pole beans, producing pods in clusters, ready for use about 85 days from time of planting; very tender pods, almost stringless, often 8 inches long. Pt., 20c.; 35c. per qt.; 4 qts., \$1.25; \$2.25 per peck; bu., \$9.00.

Lazy Wife's. (Green Pod.) Excellent, heavy cropper. Pt., 25c.; 40c. per qt.; 4 qts., \$1.50; \$2.50 per peck; bu., \$10.00.

Scarlet Runner. (Green Pod.) Sometimes used for its showy scarlet flowers, although it is fine for cooking when shelled. Pt., 25c.; 50c. per qt.

CEDAR BEAN POLES (Pointed)

Extra selected quality, 25 for \$2.75; 50, \$5.25; 100, \$10.00.

MICHELL'S TABLE BEETS

One ounce will sow 50 feet of row; 5 lbs. will sow an acre.

Betterave—Salatrube—Barbabetola

NOTE.—Price of Seeds on this page in lb. lots and less includes postage charges.

The soil best suited for beet culture is that which is rather light and well enriched. Sow in drills one foot apart and one inch deep, as early as the ground can be worked; when the plants are large enough thin out to stand four inches apart in rows. Send for Cultural Leaflet No. 104 on beets.

Crosby's Egyptian. One of the earliest beets, especially desirable on account of its rich blood red color throughout, and its extreme tenderness, which it retains through all stages of growth. Used for an early spring and winter variety, it being a good keeper. Pkt., 5c.; 15c. oz.; $\frac{1}{4}$ lb., 40c.; \$1.50 lb.

Crimson Globe (*Michell's Improved*). Almost round in shape, of a rich deep red color. It has a distinct delicious flavor and is very tender, good for sowing early for forcing and summer use. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; \$1.50 per lb.

Arlington Favorite. Extra early; exceedingly sweet, rich, blood red, turnip-shaped. Pkt., 5c.; 15c. per oz.; per $\frac{1}{4}$ lb., 40c.; \$1.25 per lb.

Bastian's Extra Early. The best beet for market and family use, grows quite large, turnip-shaped. Pkt., 5c.; oz., 15c.; per $\frac{1}{4}$ lb., 35c.; \$1.25 per lb.

Bastian's Half Long Blood. A valuable variety to follow Bastian's Extra Early; used extensively for winter use, when it should be sown in July. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Detroit Dark Red. A desirable type of turnip-shaped beet, very tender, excellent for winter keeping. Pkt., 5c.; 15c. per oz.; per $\frac{1}{4}$ lb., 40c.; \$1.50 per lb.

Eclipse. Perfectly smooth and round, skin and flesh intense red. An excellent sort for forcing or for planting in the garden; medium size. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; \$1.10 per lb.



Crosby's Egyptian Beet

Edmand's Blood. A variety for early and late sowing, good flavor, turnip-shaped. Pkt., 5c.; 10c. per oz.; per $\frac{1}{4}$ lb., 35c.; \$1.15 per lb.

Extra Early Bassano. A flat variety, flesh white and rose colored, excellent used as a buttered beet. Pkt., 5c.; 10c. per oz.; per $\frac{1}{4}$ lb., 30c.; \$1.10 per lb.

Lentz Early. Fine for sowing in hotbeds and outdoors early. It is a desirable winter variety also; blood red. Pkt., 5c.; 10c. per oz.; per $\frac{1}{4}$ lb., 30c.; \$1.00 per lb.

SWISS CHARD or SPINACH BEET

This variety does not produce an edible root; but its top growth, which is silver-leaved, can be separated, the rib and leaf; while the former is cooked and served like asparagus, the latter is prepared like spinach and has altogether a decidedly splendid flavor.

Silver Leaved. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Giant Lucullus. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.



CATTLE BEETS (Mangel Wurzel)

Seed selected from specimen roots

Sow 5 lbs. per acre in April and May in thoroughly plowed well-manured soil, in drills two inches deep, about twenty-four inches apart. Thin out to twelve inches and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for mangel-wurzels. Cultural Leaflet No. 104 gives explicit directions for growing and caring for this crop.

Mammoth Long Red. This is an enormously productive variety, yielding from fifty to seventy tons to the acre, a single root often weighing from twenty to forty pounds. It is the best long red mangel. Per oz., 5c.; 15c. per $\frac{1}{4}$ lb.; lb., 50c.; 5 lbs., \$2.00 (by express or freight, not prepaid).

Golden Tankard. The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Per oz., 5c.; 15c. per $\frac{1}{4}$ lb.; per lb., 50c.; 5 lbs., \$2.00 (by express or freight, not prepaid).

Red Globe. An excellent sort, very prolific, good for late planting. Per oz., 5c.; 15c. per $\frac{1}{4}$ lb.; per lb., 50c.; 5 lbs., \$2.00 (by express or freight not prepaid).

Yellow Globe. Contains a large amount of sugar properties, and can be used for replanting quite late. Per oz., 5c.; 15c. per $\frac{1}{4}$ lb.; per lb., 50c.; 5 lbs., \$2.00 (by express or freight, not prepaid).

Improved White Imperial. An improvement on the other varieties of sugar beets, hardier, and containing a greater percentage of sugar. Per oz., 5c.; 15c. per $\frac{1}{4}$ lb.; per lb., 50c.; 5 lbs., \$2.00 (by express or freight, not prepaid).

Lane's Improved White Sugar. This variety attains an enormous size, growing considerably above the ground, one of the best for stock feeding. Per oz., 5c.; $\frac{1}{4}$ lb., 15c.; per lb., 50c.; 5 lbs., \$2.00 (by express or freight, not prepaid).



Michell's Improved Strain Wakefield Cabbage



Michell's Danish Ball Head Cabbage

MICHELL'S CHOICE CABBAGE SEED (Long Island Grown)

Chore pomme—Kopf Kohl—Cavolo Cappuccio

selected from specimen heads in well rogued fields. Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows 2 feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows 3 feet apart and 2 feet in rows. Never plant cabbage in the same location two years in succession. Ask for Cultural Leaflet No. 106, which gives full directions for growing and storing cabbage.

EARLY VARIETIES

Early Jersey Wakefield (Improved Strain). The finest type of early cabbage in existence. A great improvement over the regular strain. It produces uniform pointed heads, and should be sown by every private and market gardener. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; \$1.25 per ¼ lb.; lb., \$4.00.

Early Jersey Wakefield (Usual Strain). Pkt., 5c.; 15c. ½ oz.; oz., 30c.; per ¼ lb., 80c.; \$3.00 per lb.

Large Charleston Wakefield. Similar to the above sort but the heads are more blunt, equally as solid, while it grows almost twice the size, but matures one week later. Pkt., 5c. and 10c.; 30c. per oz.; ¼ lb., \$1.00; \$3.50 per lb.

Early Winnigstadt. Resembles the Early Jersey Wakefield somewhat, but the heads are more pointed and not so early, nor quite so solid. Pkt., 5c. and 10c.; 20c. oz.; ¼ lb., 70c.; \$2.50 lb.

All Head. The largest of the early cabbages. The head is roundish flat and remarkably solid, excellent for winter as well as early spring, it resembles Early Summer. Pkt., 5c. and 10c.; 15c. per ½ oz.; oz., 25c.; 80c. per ¼ lb.; lb., \$3.00.

Copenhagen Market. The earliest round variety in cultivation. The heads frequently weigh as much as 10 lbs. Pkt., 10c.; 15c. per ½ oz.; oz., 25c.; 90c. per ¼ lb.

Early Flat Dutch. A dwarf-growing type, principally used for early summer. Pkt., 5c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.50.

WINTER VARIETIES

Michell's Improved Danish Ball-Head. This excellent winter cabbage, illustrated above, is unequalled for its keeping qualities, massiveness and weight of heads, when trimmed they weigh by several ounces more than any other variety. For boiling, cold slaw, sour kraut, etc., it is ideal, being crisp, tender and sweet. One of its virtues is that it does well under most any condition of moisture or drought; it seldom, if ever, rots; heads never burst. 10c. pkt.; ½ oz., 15c.; 30c. oz.; ¼ lb., 80c.; \$3.00 per lb.

One ounce will produce about 3000 plants.
4 oz. will produce enough for an acre

Our strains are the very best to be had,

SECOND EARLY VARIETIES

Henderson's Early Summer. The leaves have a more bluish cast than the other cabbages; the heads are roundish flat. Pkt., 5c.; 15c. per ½ oz.; oz., 25c.; ¼ lb., 85c.; \$3.00 per lb.

Enkhuizen Glory. A fine second early round head variety; very solid with few outer leaves. Pkt., 10c.; 15c. ½ oz.; oz., 30c.; \$1.00 per ¼ lb.; lb., \$3.25.



Early Summer Cabbage

CABBAGE—Continued
LATE OR WINTER VARIETIES

Late Flat Dutch. (Improved Strain.) This has been selected especially for our trade, the seed being taken from the finest type of heads which were selected for solidity and uniformity. In a row or field of this strain every head appears uniform and its excellence is apparent. There is no better keeping cabbage in existence, being very solid. For sauer kraut it is unsurpassed. Pkt., 10c.; 20c. per ½ oz.; oz., 35c.; \$1.00 per ¼ lb.; lb., \$3.00.

All Seasons (Vandergaw). A very large head, round and solid. It is valuable for late summer or winter use. Pkt. 5c. (10c. per large pkt.); 25c. per oz.; ¼ lb., 85c.; \$3.00 per lb.

Danish Ballhead. For description and price see preceding page.

Late Flat Dutch. A very large flat-headed sort, used extensively as the main winter cabbage crop. Pkt., 5c. (10c. per large pkt.); 15c. ½ oz.; 25c. per oz.; ¼ lb., 75c.; \$2.75 per lb.

Large Late Drumhead. Much like the above except the heads are not quite as large nor as flat, it is short stemmed. Pkt., 5c. (10c. per large pkt.); 20c. per oz.; ¼ lb., 70c.; \$2.50 per lb.

Perfection Drumhead Savoy. A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. Savoy cabbage is distinctly flavored, being much sweeter than the other kinds. We recommend it highly, being one of the best cabbages grown for either market or home consumption. Pkt., 5c. (10c. per large pkt.); oz., 25c.; 75c. per ¼ lb.; lb., \$2.50.

Pte-tsai or Chinese Cabbage. This differs entirely in appearance from the Cabbages, being rather like a Cos Lettuce in aspect. The leaves are thick and fleshy and is highly recommended as a winter vegetable. It should be sown in summer for fall and winter use. Boiled, minced and seasoned with butter it is as delicate as the best endive; excellent for cole slaw. 10c. pkt.; ½ oz., 15c.; 30c. per oz.; ¼ lb., \$1.00.

Red Dutch Drumhead. A red variety, used extensively for pickling. When cooked with a little Port wine and sugar added to it, makes a dish fit for a king. Few people can appreciate it because they have never tried it. For cole slaw it has merits over the white kinds. It is principally used for winter. Pkt., 5c. (10c. per large pkt.); 20c. oz.; ¼ lb., 75c.; \$2.50 per lb.

Volga. The heads often weigh 12 to 15 lbs. The interior is pure white. The heads are very solid, roundish flat and of a light green color. It is claimed to be almost worm proof. One of the best for early winter use. Pkt., 10c.; 25c. per oz.; ¼ lb., 85c.; \$3.00 per lb.



Michell's Selected Snowstorm Cauliflower

CABBAGE PLANTS Ready in season according to variety

Early Sorts. From hotbeds. All the leading varieties. Per 100, 40c. (by mail, 55c.); \$3.50 per 1000.
From Cold Frames Transplanted. Per 100, 75c.; \$6.00 per 1000.
Late Sorts. Ready July 1st. Per 100, 40c.; \$2.75 per 1000.



Perfection Savoy Cabbage

CATNIP HERB (Perennial)

This is used for various medicinal purposes, making tea, etc. As a tonic for cats it is excellent. Pkt., 10c.; 25c. ½ oz.; oz., 50c.

CARAWAY HERB (Annual)

The seeds when harvested are used for flavoring bread, producing the famous "German Kümmel Brot." Pkt., 5c.; 10c. per oz.; ¼ lb., 35c.

CAULIFLOWER

Choufleur—Blumenkohl—Caval Flore
One ounce of seed will produce about 3000 Plants

Sow seeds in hotbeds or window boxes in February or March and transplant in cold frames until it is safe to plant outdoors. For second crop, sow in April and set out in May. For late crop, sow in June and set out in July. Plants should be set in rows 3 feet apart, 2 feet apart in the row. Ask for Cultural Leaflet No. 108.

Matador. A splendid forcing variety. Although not quite as large as Snowball or Erfurt, it can stand any degree of heat and is extremely hardy in hot beds, 15c. pkt.; ¼ oz., 75c.

Michell's Earliest Snowstorm. Colossal heads of purest white, averaging often 10 inches in diameter; especially desirable for its earliness under glass, but does equally well in the late spring, summer or autumn outdoors. Pkt., 25c.; 50c. per large pkt.; ¼ oz., \$1.50; \$2.50 per ½ oz.; 1 oz., \$5.00.

Michell's Special Strain Selected Erfurt. One of the earliest in cultivation, small leaved dwarf, for forcing or open ground; the head is not as large as the Snowstorm sort. Pkt., 20c. and 50c.; 85c. per ¼ oz.; ½ oz., \$1.50; \$2.75 per oz.

Early Snowball. A splendid early variety, producing magnificent medium size white heads. Pkt., 20c. and 50c.; 85c. per ¼ oz.; ½ oz., \$1.50; \$2.75 per oz.

Danish Giant. An ideal variety for summer use, as it will stand more drought and heat than most other sorts; the heads are snow white. Pkt., 20c.; 80c. per ¼ oz.; per oz., \$3.00.

Algiers. One of the best late sorts for outdoor planting. Pkt., 10c.; 25c. per ¼ oz.; per oz., 75c.

Half Early Paris. Pkt., 10c.; 20c. per ¼ oz.; per oz., 65c.

Veitch's Autumn Giant. One of the finest late varieties for outdoor culture, doing especially well in the South. Pkt., 10c.; 20c. per ¼ oz.; per oz., 65c.

CAULIFLOWER PLANTS

(Ready about April 1st)

	Dozen	100
Spring plants from hotbeds.....	\$0.25	\$1.50
Wintered-over plants from cold frames.....	.40	2.00
Pot-grown plants .....	.50	4.00



CARROT CARROTTE—MOHRRÜBEN—CAROTA

Improved Long Orange Carrot

(One ounce will sow 100 ft. of drill; 3 to 4 lbs. per acre)

For an early crop sow as soon as danger from frost is over in rows 1 foot apart, when 2 inches high thin out to stand 2 inches apart in the row. For late crop sow in May or June. The long sorts sow early, the half-long and round sorts can be sown later. For complete cultural directions ask for Leaflet No. 107.

Chantenay Half-Long. Fine orange scarlet color, very productive; especially desirable for market or home use. The flesh is tender, firm and finely grained; 5 inches long, stump-rooted. Pkt., 5c.; 15c. per oz.; per ¼ lb., 55c.; \$2.00 per lb.

Danvers Half-Long. The best variety for general crop; rich orange color, a very heavy yielder and splendid keeper, a first-class carrot for all soils, and valuable both for table and stock, 6 to 7 ins. long, stump-rooted. We have an extra fine strain of this favorite sort. Pkt., 5c.; oz., 15c.; 55c. ¼ lb.; lb., \$2.00.

Early Half-Long Scarlet. A very desirable pointed root variety, coming in between the Scarlet Horn and the Long Orange; early, of fine flavor and good color, can be sown in hotbeds for early use for which purpose it is very good; 5 to 6 inches long. Pkt., 5c.; per oz., 15c.; 55c. ¼ lb.; lb., \$2.00.

Early Scarlet Horn. A favorite early red variety, fine grain and good flavor; stump rooted, about 6 inches long, ideal for soups. Pkt., 5c.; per oz., 15c.; 55c. ¼ lb.; lb., \$2.00.

Guerande or Oxheart. A desirable variety on soils too hard and stiff for the longer growing sorts, as it is not over 3 or 4 inches long. It has a very fine flavor and is well colored a rich orange. Pkt., 5c.; 15c. per oz.; 55c. ¼ lb.; lb., \$2.00.



Chervil

CHERVIL

One ounce will sow a row 25 feet long. An aromatic plant used extensively in Europe as a salad seasoner. It adds a flavor that is entirely its own. When chopped fine and scattered on buttered potatoes it is a rare treat. American gardeners should become familiar with this, as they are missing one of the best things that grow. Sow it in a row like parsley, which it somewhat resembles. For a continuous crop, sow every two weeks, if one has heated frames or a greenhouse, it can be cut 4 or 5 weeks after sowing.

Double Curled. Pkt., 5c.; oz., 15c.; ¼ lb., 60c.; \$2.00 per lb.

PRICES of SEED on this PAGE are POSTPAID

Improved Long Orange (*Michell's Special Strain*). Deep orange color, 10 inches long, good flavor, yields heavily; is of excellent table quality, and is also the best for stock feeding; point rooted. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; \$1.50 per lb.

Red Surrey. Very long, similar to Long Orange. Pkt., 5c.; 15c. oz.; ¼ lb., 45c.; \$1.50 lb.

Rubicon Half-Long. The best in shape, and its deep red orange-colored flesh is of finest quality; point rooted. It is earlier than the Danvers and about the same length; extremely well adapted for early forcing and for growing outside. Pkt., 5c.; 15c. per oz.; ¼ lb., 55c.; \$2.00 per lb.

St. Valery. Half-Long, pointed root; excellent variety. Pkt., 5c.; 15c. oz.; ¼ lb., 45c.; \$1.50 lb.

Very Early Short Horn Scarlet or French Forcing. An early forcing variety; small round root, not much larger than a radish. For stewing alone or when served with new peas, it is a rare delicacy hard to imagine unless you have eaten thereof. It may be sown outdoors as well as under glass. Pkt., 5c.; 15c. per oz.; ¼ lb., 55c.; \$2.00 per lb.

White Belgian. Used principally for stock, not being desirable for table, produces a long thick white root. It is also used for soiling or turning under; being a valuable humus maker. It is about 8 to 10 inches long with a green top. Pkt., 5c.; 10c. per oz.; per ¼ lb., 30c.; \$1.00 per lb.



A Clump of Chives

and must be sown every season.

CHIVES (*Schnittlauch*)

This popular kitchen garden plant is indispensable for flavoring certain dishes, it imparts a mild onion taste, not, however, to such an extent as to render it objectionable. The plants are hardy and will last for years; don't cut the plant too close when gathering. If desired for winter use, lift and plant in a pot or box and place in a sunny window in the kitchen.

Seed. Pkt., 15c.; 2 for 25c.
Strong Plants. 10c. each; doz., \$1.00; \$7.00 per 100.

CORIANDER (*HERB*)

The harvested seed is used for flavoring confectionery, liquors, etc. It is an annual. Pkt., 5c.; oz., 10c.; lb., 35c.



MICHELL'S CHOICE CELERY (Celeri—Sellerie—Sedano)

One ounce of Seed will produce 3000 to 5000 plants; Half pound sufficient for one acre.

Sow in hotbeds in March or in open ground in April. See that no weeds infest the seed bed; when 3 inches high transplant in a bed outdoors in rows 3 inches apart each way, let them remain there until July, when they should be planted where they are to mature; in rows 3 feet apart, 6 inches apart in the row. Cultural Leaflet No. 109 covers celery growing fully.

LATE WINTER VARIETIES

EARLY VARIETIES (For Thanksgiving and Christmas Use)

White Plume (*Michell's Private Stock*). The standard early celery for market and the home garden. The stalks and heart, which blanch very quickly to almost a pure white, are very crisp and brittle. It can be used early in November and is of the finest quality. This strain of seed is a selection of the finest and best specimens, and will be found very superior in every way. Pkt., 10c.; 20c. per ½ oz.; oz., 35c.; \$1.00 per ¼ lb.

White Plume (*Regular Strain*). Pkt., 10c.; 15c. per ½ oz.; oz., 25c.; 75c. per ¼ lb.

Early Snowdrift. An improved White Plume self-blancher, with a splendid nutty flavor, the heart is very full; a single plant producing a good quantity; matures for Thanksgiving Day. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; \$1.25 per ¼ lb.

Golden Self Blanching (*French Grown Seed*). One of the earliest and most productive sorts. The beautiful golden-colored stalks attain a height of 18 inches, which during the growing period are never pithy, of excellent flavor requiring no artificial blanching process, ready for use in October but may be kept for early winter use. Our seed has been grown in France, where this vegetable attains greatest perfection, and this strain is much superior to American-grown seed. Pkt., 15c.; 85c. per ½ oz.; oz., \$1.50; \$6.00 per ¼ lb.

Dwarf Golden Heart. This variety comes in for use at Christmas, and keeps well into the spring. The stalk is short, stocky and very nutty. The heart or inner stalks are a rich golden yellow. An ideal home garden variety. Pkt., 5c.; 10c. per large pkt.; oz., 20c.; 60c. per ¼ lb.

Pink Plume. A very solid, crisp, desirable sort; the stalks when blanched are a beautiful rose-pink. On the table it is quite an attraction and should be grown more extensively. It is very early and requires very little artificial blanching. Pkt., 10c.; 15c. per ½ oz.; oz., 25c.; 75c. ¼ lb.

Far Superior (*Michell's*). It produces gigantic stalks, and a large, full heart, the flavor is ideal and all that could be desired. It improves with the advance of winter, and is a variety with very little waste, comes into condition for use about January. Pkt., 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., 85c.

Giant Pascal. It is in its prime for use during February and March, and can be used well up into spring. Pkt., 5c. (10c. per large pkt.); ½ oz., 15c.; 25c. per oz.; ¼ lb., 75c.

Winter King. Perfectly solid, crisp and of a delicious flavor. Blanches well and will keep longer than any other variety. Pkt., 10c.; 20c. ½ oz.; 35c. oz.; \$1.25 ¼ lb.

Winter Queen. A medium tall, solid variety, will retain its qualities long through the winter. The heart is very full and large. Pkt., 10c.; 15c. per ½ oz.; oz., 30c.; \$1.00 ¼ lb.

New York (New). The earliest Celery in cultivation. Very large and solid and of excellent qualities. Self blanching. Pkt., 10c.; 15c. per ½ oz.; oz., 25c.; 75c. per ¼ lb.

New Columbia. A new variety of great merit, a medium tall sort, producing a large heavy stalk; has splendid keeping qualities. Pkt., 10c.; ½ oz., 25c.; oz., 50c.; \$1.75 per ¼ lb.

CELERIAC—Turnip Rooted

This German vegetable is used for two purposes, the leaves are cut when young and used to flavor soups and meats. The roots are boiled, sliced, cooled, and served as a salad.

Giant Prague. Pkt., 5c. and 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.

CELERY PLANTS (Ready in July)

Extra selected transplanted stock, leading sorts. (See page 46.) 50c. per 100; 500 for \$2.25; \$4.00 per 1000.

CELERY FOR FLAVORING

Not for sowing. 10c. per ¼ lb.; lb., 30c.

ACCESSORIES FOR CELERY CULTURE

Celery Paper. Per 500 sq. ft. roll, \$1.15; \$5.00 for 5 rolls.

Celery Wire. No. 19, hard tinned, cut 8½ inches long, 15c. per lb.; 10 lbs., \$1.40.

Celery Tape. In 1000-yard spools, red. Per spool, \$2.25.

Prices of Seed on this page include postage

(hn)



Michell's Arlington White Spined Cucumber

CUCUMBER

Concombre—Gurken
Citrioli

One ounce of seed will plant 60 hills;
2 to 3 pounds per acre.

Plant when the ground has become thoroughly warmed in hills, 4 feet apart each way, 8 seeds in a hill, when the second set of leaves have formed thin out to 4 plants. A type of beetle attacks this crop occasionally, which can be conquered by spraying the vines with Pyrox or Arsenate of Lead, when this is used always wash the fruits thoroughly before using. Culture of Cucumbers is fully covered in Leaflet No. 111, ask for a free copy.

Michell's Arlington Improved White Spined. This cucumber is conceded to be absolutely perfect in form, color, size and productiveness and is, therefore, the leading sort for not only the home or market garden, but also with those who make a specialty of growing them under glass. The fruit is smooth, deep green to the tip and measures uniformly 8 inches in length. It has few seeds, making it a valuable variety for slicing or pickling. A splendid keeper, retaining its color remarkably; the seed we offer is an extra selection. Pkt. 10c., 15c. per oz.; 40c. per $\frac{1}{4}$ lb.; lb., \$1.30.

Improved White Spined. A popular strain of the above, producing fine quality. Pkt. 5c., 10c. oz., $\frac{1}{4}$ lb. 30c., \$1.00 lb.

Davis' Perfect. This remarkably fine variety is suited for growing under glass as well as outdoors. The fruits are uniform in shape and size, measuring 10 to 12 inches on the average. Its color is dark green all over and it is quite smooth and productive. Pkt. 5c. (10c. large pkt.), 15c. oz., $\frac{1}{4}$ lb. 35c., \$1.20 lb.

Emerald. A dark green early sort, very smooth and prolific, it grows very straight, measuring on the average 8 inches. It is not as thick as some sorts, thus making it valuable for slicing. Pkt., 5c.; oz., 10c.; 35c. $\frac{1}{4}$ lb.; lb., \$1.00.

CORN SALAD (Fetticus)



This is principally sown for a supply of greens during winter and early spring months. Sow in September broadcast; when cold weather approaches, cover it with a litter of leaves or long manure; and upon approach of spring the covering can be taken off entirely. It can be gathered on mild days during winter.

Large Leaved, Round Seeded. Pkt. 5c., 10c. per oz., $\frac{1}{4}$ lb. 25c., 75c. per lb.

Cool and Crisp. An improvement on the White Spined variety, being somewhat longer, earlier and continuing to bear for a longer while than most sorts. The ends are uniformly tapered, the fruits are dark green and free from spines. Pkt. 5c., 10c. per oz., $\frac{1}{4}$ lb. 30c., \$1.00 per lb.

Long Green Turkey. This is one of the largest cucumbers grown, used principally for slicing. Its dark color makes it desirable for market. The vines are very vigorous and productive, the fruits are formed almost as early as the short sorts; they are firm, crisp and have a fine flavor. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 per lb.

Evergreen. The name is derived from the feature of its dark green color-retaining qualities, a thick fruit measuring about 8 to 9 inches long. Pkt. 5c., 10c. per oz., $\frac{1}{4}$ lb. 30c., \$1.00 per lb.

Jersey Pickle or Green Prolific. This sort can be used for slicing, but is best for pickling on account of its size, which averages 5 inches; makes ideal "Dill Pickles" as sold extensively in the delicatessen stores. Pkt. 5c., 10c. per oz., $\frac{1}{4}$ lb. 30c., \$1.00 per lb.

Japanese Climbing. A trellis variety used for shade as well as eating purposes. The vine is very ornamental, producing extra long light green fruits in abundance. Pkt. 5c. (10c. per large pkt.); 15c. oz.; $\frac{1}{4}$ lb., 40c.; \$1.40 lb.

Gherkin or Burr Cucumber. For pickling only, the small fruits are roundish long, about 2 inches, very prickly when green. Pkt. 5c. (10c. per large pkt.); per oz., 15c.; 45c. per $\frac{1}{4}$ lb.

ENGLISH CUCUMBERS

These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them.

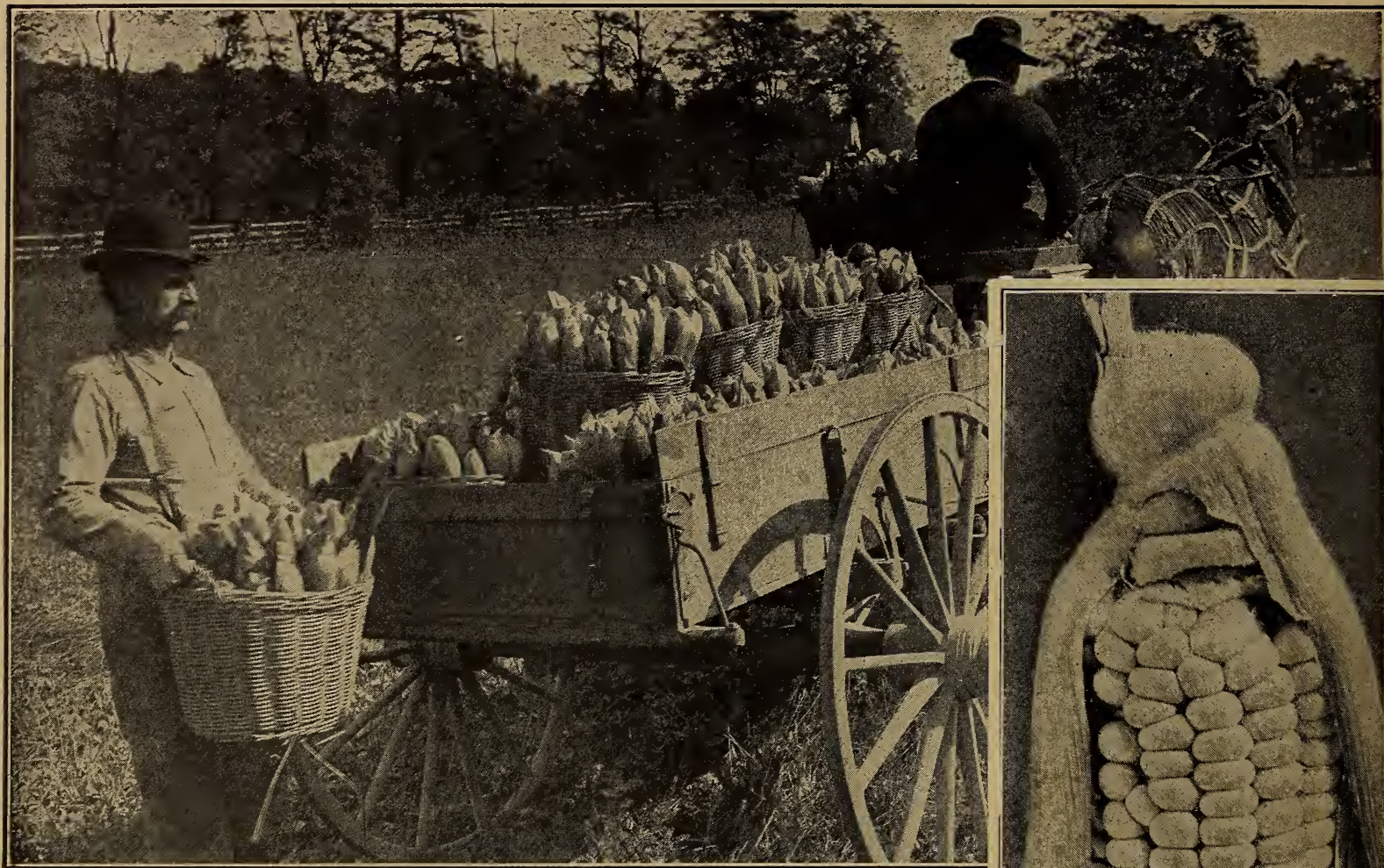
Lockie's Perfection, Sion House, Telegraph, Tender and True.
Each per packet of 12 seeds 25c., \$2.00 per 100 seeds.

DILL HERB (Annual)

Used extensively for culinary use and for putting with cucumbers when pickling, producing the famous German "Dill Gurken." Pkt., 5c.; 10c. oz.; $\frac{1}{4}$ lb., 30c.



English Cucumber
"Lockie's Perfection"
Average length, 24 in.



Off to market with a load of Michell's Improved Strain Stowell's Evergreen Corn

SWEET OR SUGAR CORN

One quart will plant 200 hills;
8 to 10 quarts per acre.

Large Packets of all Varieties, 10 cents, postpaid

Plant once a week from the moment the ground is permanently warm until July 15th, drop from 6 to 8 grains in hills three feet apart each way, or in rows three feet apart; if the latter, thin out so the plants stand 12 inches apart; if left in hills, thin out when 4 inches high to 3 or 4 strong plants to the hill. Directions for successful corn growing is covered in Cultural Leaflet No. 110, free for the asking.

EARLY VARIETIES

Early Champion. Large ears, well shaped and exceedingly sweet Pt., 15c.; 25c. qt.; 4 qts., 80c.; \$1.35 per peck; bushel, \$5.25.

Golden Bantam. While yellow in color, this is the sweetest and earliest corn in existence, if once planted it will be a sure favorite. The ears are medium size, tender and delicious. The plant is of dwarf growth, we recommend it very highly for the home garden. Pt., 15c.; 30c. qt.; 4 qts., \$1.00; \$1.75 per peck; bushel, \$7.00.

Early Giant Wonder. An extremely good sort, producing larger ears than any early type of true sugar corn, of which it is one of the earliest. 10c. pkt.; pt., 20c.; 40c. per qt.; 4 qts., \$1.25; \$2.25 per peck; per bu., \$9.00.

Ideal. The grower of this variety has been carefully selecting it for the past fifteen years. Exceedingly early and large yielder. It is not quite as sweet as some other varieties, it is though, nevertheless, well flavored and its extra early feature outweighs all other points against it. It comes in sooner than other white-kernel varieties. 15c. per pt.; 25c. per qt.; 90c. for 4 qts.; peck, \$1.50; \$6.00 per bu.

Kendel's Early Giant. Large ears, large deep grain, well flavored and extra sweet. The ears are very cylindrical. An ideal sort for the first and last planting. Pt., 15c.; 25c. per qt.; 4 qts., 90c.; \$1.50 per peck; bushel, \$6.00.

Howling Mob. Although an extra early variety, the ears are much larger than any of the other early sorts, while the grains are much whiter and sweeter. A splendid sort for the market gardener as well as for home use. Pt., 15c.; 30c. qt.; 4 qts., \$1.10; \$2.00 peck.



Ideal Sugar Corn

If Corn is wanted by mail, add 5c. per pint, 10c. per quart, for postage.

Large Packets of all Varieties, 10 cents postpaid

EARLY VARIETIES—Continued

Crosby's Extra Early. An old favorite sort. Ears small, grain exceedingly sweet, heavy producer. 15c. per pt.; per qt., 25c.; 75c. for 4 qts.; per pk., \$1.25; \$5.00 per bu.

Early Evergreen. This variety is closely allied to Stowell's in shape, flavor and style, but is much earlier. 15c. pt.; qt., 25c.; 85c. for 4 qts.; per pk., \$1.50; \$6.00 per bu.

Early Mammoth. The ears and fodder both attain gigantic proportions. The former, besides being large, are handsome in appearance and exceedingly sweet. Matures just after the extra early types. 15c. per pt.; per qt., 25c.; 80c. for 4 qts.; per pk., \$1.25; \$5.00 per bu.

Golden Rod. This is an improvement on the famous Golden Bantam. Ears are somewhat larger, but it matures a few days later. In color it is not quite as golden yellow, as the former, but lighter. It is exceptionally sweet. A variety, that will give great satisfaction in the home garden. 20c. per pt.; per qt., 35c.; \$1.20 for 4 qts.; \$2.00 per pk.

Metropolitan. One of the largest of the early sorts, maturing sooner than most of the real Sweet Corns. It is evenly grained and may be depended upon for exceptional results. Per pt., 15c.; 25c. per qt.; 80c. per 4 qts.; per peck, \$1.50; \$6.00 per bushel.

Long Island Beauty. A very fine, large, early sort with delicious flavor. Per pt., 15c.; 25c. qt.; 4 qts., 80c.; \$1.50 peck.

Stabler's Extra Early. This is the standard sort for the home garden. The large ear is well arrayed with even grains which cook pure white and are very tender. 15c. pt.; qt., 25c.; 90c. for 4 qts.; pk., \$1.40; \$5.60 per bu.

MEDIUM AND LATE VARIETIES

Black Mexican. A medium late variety, reputed to be without exception the sweetest corn grown; while the grains are young they cook white, as the ear becomes older it cooks a violet shade on the outside, but in either stage of growth it is desirable. The ears are medium sized and are produced abundantly. Pt., 15c.; qt., 25c.; 4 qts., 75c.; peck, \$1.35; bushel, \$5.00.

Country Gentleman (Michell's Improved Strain). A distinct sort, with deep, fine grains which are staged irregularly on the cob. In sweetness it is unapproached and for this reason it should recommend itself to every planter. The ears are large and borne on stalks about 6 feet high, a very productive variety and desirable for either home or market use. Our Improved Strain is a careful selection of the finest type and will give unusual satisfaction. Pt., 20c.; 35c. qt.; 4 qts., \$1.25; \$2.25 per peck; bushel, \$8.00

Country Gentleman (Usual Strain). 15c. pt.; qt., 30c.; \$1.00 per 4 qts.; peck, \$1.50; \$6.00 per bushel.

Eastwick. This corn, until some seed stock had been given to us, had been in the hands of one family for a period of many years. Through experiments, we conducted, we are convinced, that it cannot be surpassed by any for sweetness. We have succeeded in working up a limited stock of it, which we offered last season for the first time. It is a tall growing sort, matures at the same time as Shoe Peg (but is much sweeter). An important characteristic of it is, that in eating it, the kernel or flesh of the grain comes out of the hull easily and the latter remains on the ear. This means that you do not have to pick your teeth after you eat Eastwick Sugar Corn. 20c. per pt.; per qt., 35c.; \$1.00 for 4 qts.

Late Mammoth. Gigantic ears, of extra fine quality, produced in quantity. This is the latest maturing and largest of all sweet corns. The stalks frequently are 8 and 9 feet high. Pt., 15c.; qt., 25c.; 4 qts., 75c.; peck, \$1.10; bushel, \$4.40.

TESTIMONIAL ON MICHELL'S SUGAR CORN

Brigantine, N. J.

The seeds purchased from you last season were O. K., and although the season was very dry, the vegetables were fine. Your Improved strain of Stowell's Evergreen Corn was simply great.

MORRIS SMITH.

MEDIUM AND LATE VARIETIES (Continued)

Little Gem or Shoe Peg (*Ne Plus Ultra*). This variety is closely allied to Country Gentleman in every characteristic. Pt., 15c.; per qt., 30c.; 4 qts., \$1.00; per peck, \$1.50; bushel, \$6.00.

Michell's Delicious. The name hardly describes this sort. Some twenty years ago it was selected by an old Philadelphia gardener who bred it until he had it perfect, ever since we acquired control thereof we have placed it with our best sugar corn grower in New England with instructions to grow it for us exclusively and keep reselecting it. The ears are well filled, medium in size and mature after the early varieties. Pt., 20c.; 40c. per qt.; 4 qts., \$1.50; \$2.75 per peck; bushel, \$11.00.

Stowell's Evergreen (Michell's Improved Strain). The best late corn grown. The ears are extra large, produced in great abundance, stalks often grow to a height of 7 feet; in sweetness it is unexcelled and for this reason it is the great favorite of the market and home gardener. Our strain has been reselected and represents not only a superior quality but a most distinct advance in this splendid variety. Pt., 20c.; 35c. per qt.; 4 qts., \$1.25; \$2.25 per peck; bushel, \$8.00.

Stowell's Evergreen (Usual Strain). Pt., 15c.; 25c. per qt.; 4 qts., 75c.; \$1.25 per peck; bushel, \$5.00.

SUGAR CORN ON EARS

Large selected specimens of Crosby's, Country Gentleman, Stowell's Evergreen, Late Mammoth, Kendel's and Stabler's. 10c. each; per doz., \$1.00; \$7.00 per 100 ears.

POP CORN



Popping Corn

There is hardly a home in this vast country where the popping of corn is not considered an excellent pastime during the long dreary evenings of winter. When popped, buttered and sugared it is not only delicious but healthful. Not all pop corn is the right kind for popping. What we offer, however,

can be relied upon for planting and popping.

Queen's Golden (Ears). (Pops white.) Lb., 10c.; 3 lbs., 25c.; 10 lbs., 75c.

White Rice (Ears). Lb., 10c.; 3 lbs., 25c.; 10 lbs., 75c.

CORN POPPERS

Made of best quality wire. Price includes handle and lid. 1 qt. size, 15c.; 2 qt. size, 25c.

CHOICE FIELD CORN FOR SEED

We are headquarters for the leading varieties, which we have had grown on contract especially for us. See page 63.

WATER CRESS



Water Cress

This desirable cress may be sown early in spring near the brink of a pond or piece of running water. Just scatter the seed and it will sprout and grow with wondrous rapidity; once established it remains for years, it seeding itself.

True Erfurt. Pkt., 10c.; 20c. per ½ oz.; oz., 30c.; \$1.00 per ¼ lb.

GARDEN CRESS

Sow thickly in early spring in drills one foot apart, and follow every two weeks, up to August 1st, with a new sowing, as it quickly runs to seed. Its very desirable pungent taste is acceptable to most any one who is fond of garden greens. It is eaten as gathered prepared with either a little salt and vinegar, or without; makes a very tasty salad.

Extra Curled or Pepper Grass. Pkt., 5c.; 10c. per oz.; ¼ lb., 20c.; 50c. per lb.

If Corn is wanted by mail, add 5c. per pint, 10c. per quart, for postage.



CHICORY

Witloof. This grows in a solid oblong head and blanches ivory white. When lifting, cut whole head with part of the roots to hold the leaves together. It is the choicest of all the winter salads and is used to such an extent in this country that much of it is imported. Pkt. 5c. (large pkt., 10c.); 15c. per oz.; ¼ lb., 45c.; \$1.50 per lb.

Witloof Chicory Roots, for Forcing. 10c. each; doz., \$1.00; \$7.00 per 100.

Large Rooted or Common. This variety is cultivated principally for the roots, which when matured are dried and ground. It is a substitute for coffee and is used sometimes for flavoring the latter. The roots can be boiled, prepared and served like salsify. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

Ask for Special Cultural Leaflet No. 131, covering Chicory growing.

GARDEN BASKETS (Oak)

The English Gathering Basket, known as No. 1, will be found

especially convenient for gathering Asparagus, Lettuce, Cauliflower, cut flowers, etc. Even in a small home garden there is a need for one of these baskets.



ENGLISH GATHERING BASKET No. 1

Very convenient for carrying berry boxes, asparagus and other vegetables; made of oak; 12 in. wide, 23 in. long, 4 in. deep. Price, 60c.; \$6.50 dozen.



STIFF HANDLED BASKET No. 2

½ bushel capacity. 50c. each; doz., \$5.50.



DROP HANDLE OAK BASKET No. 3

½ Bushel capacity, with a thoroughly reinforced bottom. 50c. each; \$5.50 doz.



OAK BASKET WITHOUT HANDLE No. 4

This pattern is on the market a long while and is preferred by many. Has liberal hand grips and is closely woven. 1 Bush. size, 75c. each; dozen, \$8.00. ½ Bush. size, 45c. each; dozen, \$4.75.

SPLINT OR CHIP BASKET

These inexpensive baskets are suitable for shipping fruit and vegetables from the garden to the summer home.

With Handle		Without Handle	
¼ bu...	doz. \$0.65	doz. \$0.60	¾ bu...doz. \$1.20
½ bu...	" .70	" .65	doz. \$1.00
			1 bu... " 1.65 " 1.50

DANDELION (Pissenlit—Loewenzahn—Amargon)

While this name applies to one of the most obnoxious weeds, this variety is a valuable vegetable, grown in quantities for the New England markets, where it is prized as the first spring greens. The leaves, which are very fleshy, are boiled and served hot or cold; not alone is it appetizing but very healthy and highly recommended by physicians. Seed should be sown in spring thickly in a bed in the garden, where the plants should remain for the season, late in the fall cover the bed with a movable sash or leaves or salt hay for protection. To be real tender it must be used very early in the spring, after which the bed should be destroyed, unless it is desired to make wine from the flowers. A new bed should be made each season.

Thick Leaved or Cabbaging. Pkt., 5c. and 10c.; ½ oz., 25c.; per oz., 45c.; \$1.50 per ¼ lb.



Black Beauty Egg Plant

EGG PLANT (Aubergine—Elerpfianze—Berengere)

One Ounce will produce about 2000 plants

Sow seed in March in hotbeds and when three inches high transplant into small pots or otherwise. Plant outdoors in May or June, or after the weather has become permanently warm. The rows should be 3 feet apart and the plants set 2 feet apart in the row. Ask for Cultural Leaflet No. 112, covering Egg Plant growing.

SELECTED NEW JERSEY GROWN SEED

Black Beauty. An extra early large variety, almost black in color, very prolific and with few seeds. Pkt., 10c.; 25c. ½ oz.; oz., 50c.; \$1.75 per ¼ lb.

Michell's New York Improved. An old standard, quite large and more elongated than the Black Beauty, with a rich purple color. Pkt., 10c.; 20c. per ½ oz.; oz., 40c.; \$1.25 per ¼ lb.

Black Pekin. An extra early, small, black variety. Pkt., 10c.; 20c. per ½ oz.; per oz., 40c.; \$1.25 per ¼ lb.

EGG PLANT PLANTS (Ready May 15th). Pot-grown. **New York Improved, Black Beauty.** Produced at our own nurseries. Per doz., 50c.; \$4.00 per 100.

Copy of Testimonial

Hamlet, N. C.

I would like to get in my order for 2 dozen Pot-grown Egg Plants. Your Seeds and Plants are the *finest*. I have ever had, and the seed potatoes were *great*.

MRS. O. L. CLOUD.

**ENDIVE** (Sometimes called Chicory)

One ounce will sow a row 200 feet long

Sow from June to August in shallow drills and when 2 inches high thin out so the plants stand 10 inches apart. When fairly well developed tie the plants together at the top with Raffia, but do this at a time when the leaves are dry, this is called the blanching process. If the plants are protected they may be left outdoors till Christmas. If wanted for later use they must be lifted late in the autumn, placed in a dry cool cellar, covering the roots with soil. If handled thus it may be had well into spring, and makes an excellent salad.

Broad-Leaved Batavian (*Escarolle*). Leaves broad, light green, nearly plain. Pkt. 5c. (large pkt. 10c.), 15c. per oz., per ¼ lb. 45c.; \$1.50 per lb.

Giant Fringed (*Oyster Endive*). A strong growing variety with a large white heart and broad leaves, the heads frequently measure 15 inches in diameter. Pkt. 5c. (large pkt. 10c.), 25c. per oz., per ¼ lb. 75c., \$2.50 per lb.

Improved Green Curled. An improvement on the old Green Curled variety, producing a larger head and more leaves. Pkt. 5c. (large pkt., 10c.); 15c. oz.; ¼ lb., 45c.; \$1.50 per lb.

White Curled (self-blanching). This is the finest White Curled variety, grows to a large size, always crisp and very tender. Pkt., 5c. (large pkt., 10c.); 15c. oz.; ¼ lb., 45c.; lb., \$1.50.

FENNEL HERB (Annual)

An aromatic plant used for flavoring and in cooking, also for tea for children. Pkt. 5c., 10c. per oz., ¼ lb. 30c., \$1.00 per lb.

GARLIC SETS (Knoblauch)

A hardy flavoring onion, used extensively in the French method of cooking. This variety should not be compared with the common field sort, as this produces large bulb. Plant and harvest the same as onions. 30c. per lb. (by mail 38c.), \$1.25 for 5 lbs.

HOP VINE

Besides being used in culinary and medicinal ways, this makes a valuable shade plant, placed on arbors, trellis, etc. It is hardy and rarely winter-kills. The hops are gathered about September and stored for use on a dry floor or hung in bags.

Seeds. Pkt. 10c., 30c. per oz.

Pot Grown Plants. 12c. each; doz., \$1.25; \$8.00 per 100.

HOREHOUND HERB (Annual)

Used for various medicinal purposes and for flavoring. Pkt. 5c. (large pkt., 10c.); 15c. ½ oz.; oz., 25c.

HORSE RADISH ROOTS

(Ready in March)

Horseradish is used in most every household during the fall and winter months when the fresh product is ready. Set the roots in spring in rows six inches apart, about the same distance in the row. No cultivating of any amount is required. Late in the fall lift as many roots as you think you will use during the winter, cut off the top, place them in a cool cellar covered with soil or sand, and grate as wanted. A bed once planted remains for years.

Maliner Kren (*Bohemian*). Quick-growing variety, now the very best horse radish grown. Large, strong cuttings 25c. per doz., per 100 75c. (postpaid 85c.), \$6.00 per 1000.

Regular Variety. Doz. 15c., 50c. per 100 (postpaid 60c.), per 1000 \$4.00.

**Dwarf Curled Scotch Kale****KALE OR BORECOLE** (One ounce will sow a drill 150 ft. long; 3 lbs. will sow an acre)

For early use it may be sown in May; when desired for winter use sow in September broadcast or in rows 2 ft. apart. Cover for protection against severe freezing and snow. Do not handle while in a frozen condition, one of the finest nutritious greens.

Dwarf German Green Curled. This variety is very compact growing, rarely attaining a height over six inches. The color is dark green, very curly. 5c. pkt.; 10c. oz.; 30c. ¼ lb.; 90c. lb.

Dwarf Green Scotch. A very good variety, quite an improvement on the Dwarf German type. It is more prolific, holds its color better, and is more densely curled; fine for winter use. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 90c. per lb.

Imperial Long Standing. The leaves are very crimp and of a dark green color. It stands quite tall, and is an excellent producer. It is just as hardy as any of the other sorts, and will be found very profitable where quantity as well as quality is desired. Pkt. 5c., 10c. per oz., ¼ lb. 30c., 90c. per lb.

Sea Kale. This variety is cooked and served like asparagus when blanched. Pkt. 10c., 25c. oz.

*Earliest White Erfurt Kohl Rabi***KOHL RABI** (One ounce will sow a row 150 feet long)

It is regrettable that this splendid vegetable is not more widely used, we would suggest that those who read these lines give it a trial and if pleased with it, recommend it to their friends. Sow seeds in early spring in hotbeds or outdoors and transplant when 3 inches high in rows 18 inches apart, 6 inches in the row. The edible part is the turnip which grows above the ground, this should be used when it attains a size of 2½ inches in diameter or less, at this stage it is extremely tender and delicious, while if it is larger it is woody. Prepared and served like turnips, except that a few of the bottom leaves can be cooked with the root. If they get old before they are used, feed to the cows, they relish them; and it gives the milk a fine flavor.

Blue or Purple Vienna. The flesh is white, with a bluish skin. Principally used for outdoor sowing. Pkt. 5c. and 10c.; 25c. per oz.; 90c. per ¼ lb.

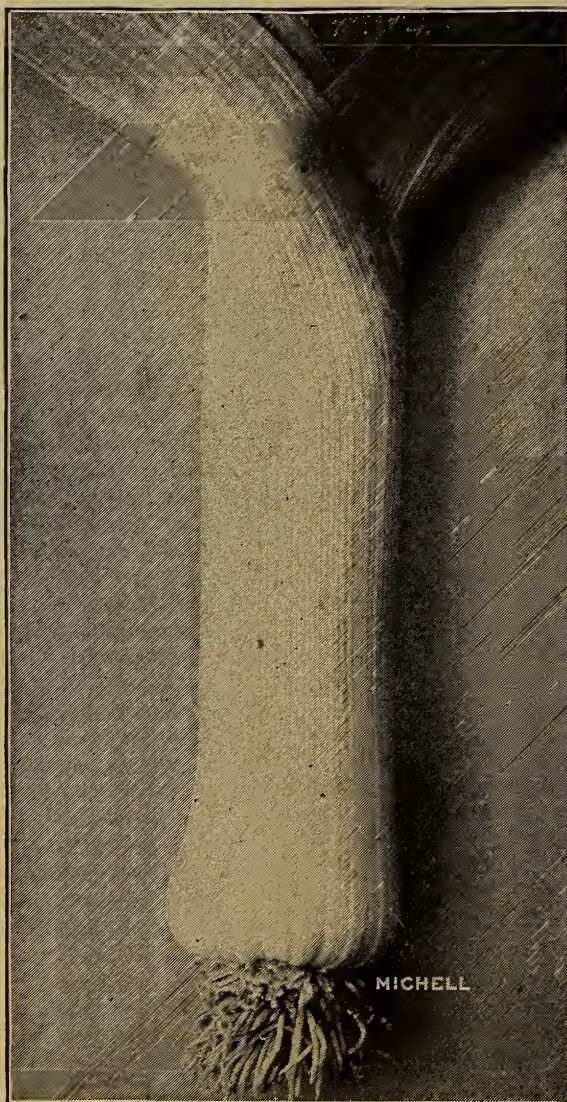
Early White Vienna. This variety is suited for sowing under glass and for outdoors. The top is very short, thus allowing all the development to go to the root, insuring an early maturity. Very finely grained and of excellent quality. Pkt. 5c. and 10c., 15c. per ½ oz., oz. 25c., 90c. per ¼ lb.

Earliest White Erfurt. A very small rooted sort; fine for forcing; exceedingly tender and sweet. Pkt. 10c., 15c. per ½ oz., oz. 30c., ¼ lb. \$1.00.

LAVENDER HERB (Perennial.)

This aromatic herb is grown largely for its flowers, which are very highly scented, cut and dried it is spread among linen and clothing to which it imparts an agreeable perfume. It also has the tendency of keeping away moths. Cultural directions are given in Leaflet No. 113. Pkt. 5c. (large pkt. 10c.), oz. 20c.

Lavender Plants. 15c. each; doz., \$1.50; \$10.00 per 100.

*Giant Carentan Leek***MINT**

Our stocks are the true varieties used for making mint sauce and juleps, also in many other ways. The plants are hardy and when once established remain for years.

Seeds of Peppermint. 25c. per packet.

Plants of either Spearmint or Peppermint. 10c. each; doz., \$1.00; \$7.00 per 100.

MUSTARD

One ounce will sow a row 75 feet long. Another one of the things the average person who gardens knows nothing of except in a prepared state as a condiment. It makes a delicious green salad, pungent in taste, highly palatable and healthy. It should be sown every two weeks in a row the same as spinach, for a continuous supply, beginning in April. It must be used while

young, as only then is it tender and mild. Fine winter greens if sown in a heated frame or greenhouse, also fine if served with lettuce salad for flavoring. The seed can be harvested if the plant is allowed to stand and used for other culinary purposes.

White or Yellow. 7c. per oz.; ¼ lb., 15c.; 40c. per lb.

*A Mustard Plant***MARTYNIA** (Unicorn Plant)

A bushy plant growing two feet in height, bearing clusters of pink flowers resembling gloxinias, which afterwards turn to long green pods, which when picked are preserved the same as cucumbers, making a very tasty relish. Sow seeds in April outdoors and transplant so they stand 2 feet apart each way.

Proboscidea. Pkt. 5c. (large pkt. 10c.), 15c. ½ oz., oz. 25c., 75c. per ¼ lb.

LEEK (One Ounce of Seed will sow 100 feet of drill.)

Allied to the onion family but producing no bulb, the stalks are cut and used for flavoring soups, also they are boiled and served with melted butter, and make a very palatable dish on account of their mild flavor. Sow seeds in April in rows 1 foot apart, covering the seed about an inch, when about 4 inches high transplant where it is to develop in rich soil in rows 18 inches apart, 6 inches in the row. When fully grown, hill soil against them to blanch them, about Nov. 1st take up the plants and store them in a cool cellar, placing the root end in soil 3 or 4 inches, thus a supply may be had all winter.

Giant Carentan. A variety which produces colossal stalks of tender quality, splendid for exhibition purposes. Pkt. 5c.; large pkt., 10c.; oz., 20c.; 60c. per ¼ lb.; lb., \$2.00.

Large Musselburg. Of enormous size, mild flavor and tender. Pkt. 5c. (large pkt. 10c.), 20c. per oz., ¼ lb. 50c. \$1.60 per lb.

London Flag. Popular for the home garden, makes a longer but narrower stalk than others. Pkt. 5c. (10c. per large pkt.), oz. 20c., 50c. per ¼ lb., lb. \$1.60.



Price of all seeds on this page (except Mushroom Spawn) include postage charges.



A SINGLE CLUSTER OF MUSHROOMS
FROM
MICHELL'S PURE CULTURE SPAWN

OKRA OR GUMBO

One Ounce will sow 20 ft. of row; one lb. about 300 ft.

The seed is sown in rows, thickly like peas (in ground that is rich, after the frost and cold has disappeared), in rows 3 feet apart, when about 6 inches high it should be thinned out to stand 6 inches apart in the row. The pod is used when young and tender sliced in soups and stews; what is not utilized during the summer may be harvested, cut in slices and dried in the sun; after cured in this way it should be put on the pantry shelf for use during the winter, in this way one may have delicious Chicken Gumbo soup any day of the year.

Perkins' Long Pod (Improved Strain). A wonderful dwarf type, setting pods when only a foot high. It can be planted somewhat earlier than other sorts. The pods are exceedingly long and tender and of a dark green color. Pkt., 5c.; 10c. per oz.; ¼ lb., 20c.; 60c. per lb.



Perkins'
Improved
Long Pod
Okra

Dwarf Green Improved. A very desirable sort, immensely productive, bearing very long pods well filled. It is somewhat later than the Perkins strain and the pods are not quite so great in diameter. Pkt., 5c.; 10c. per oz.; ¼ lb., 20c.; 60c. per lb.

White Velvet or Creole. The pods of this variety are very free from ridges, being almost perfectly smooth; they are tender and very light green almost white in color. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 50c. lb.

MICHELL'S SUPERIOR MUSHROOM SPAWN

If wanted by mail allow for postage

Mushrooms are within the reach of any one who has a greenhouse or a cellar. A crop is produced with good spawn, a little care and patience in about 4 to 6 weeks, and continues in bearing about two months. New beds can be started at intervals which will give a supply the entire season. The first planting can be made in July, the last in March. Summer spawned beds do not bear well. Ask for our Free Booklet on Mushroom Culture, which also describes, further, these different spawns.

BRANDYWINE PURE CULTURE SPAWN

This is an entirely new strain originating in the section of Pennsylvania that supplies the New York and Eastern markets with mushrooms. It appears to be especially full of life and we can recommend it as an early and prolific producer; mushrooms are uniform and almost pure white in color.

Per Brick (P. P. Wt., 1¾ lbs.)	.....\$0.30	Per 10 Bricks	.....\$2.30
Per 5 Bricks	.....1.25	Per 25 Bricks	.....5.60
		Per 50 Bricks	.....10.50

LAMBERT'S AMERICAN PURE CULTURE SPAWN

This type produces larger mushrooms than the English, coming into bearing somewhat earlier, and continuing to crop for a long time. This spawn is produced by selecting spores from individual specimen mushrooms and is propagated and transferred to the bricks of manure, which, when planted, produce mushrooms all of one type.

Direct No. 8. Cream White. For use from April to October.

Direct No. 9. Pure White. For use from October to April.

Per Brick (P. P. Wt., 2 lbs.)	.....\$0.30	Per 10 Bricks	.....\$2.30
Per 5 Bricks	.....1.25	Per 25 Bricks	.....5.60
		Per 50 Bricks	.....10.50

MICHELL'S SUPERIOR ENGLISH MUSHROOM SPAWN

15c. per brick (P. P. Weight, 1¾ lbs. per brick); per doz., \$1.60; 25 lbs., \$2.50; \$8.00 per 100 lbs.



MUSHROOM OR HOT BED THERMOMETERS

Heavy Iron Point style.\$1.00 | Heavy Brass Point style.\$1.50

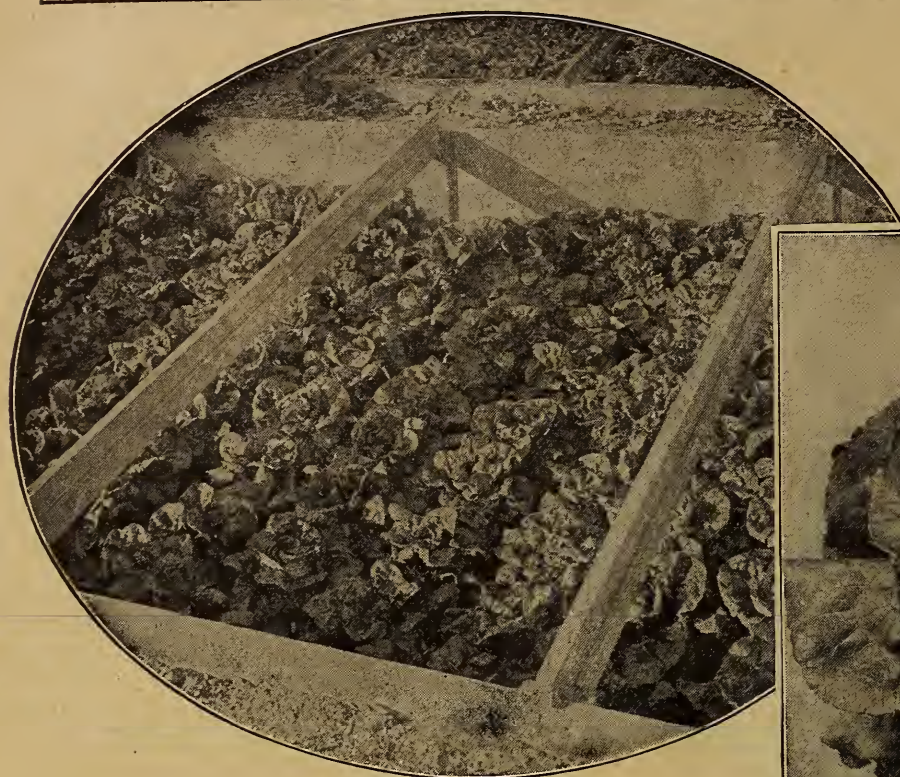
Thermometers should, wherever possible, be sent by express. We do not guarantee safe arrival if forwarded by parcel post.

Books on Growing Mushrooms

Pamphlet (gratis for a postal card asking for it).

Robinson's Book (postpaid)\$0.50

Falconer's Book (postpaid)1.00 (hn)



LETTUCE (One ounce of Seed will produce 2500 Plants)

Our Leaflet No. 115 covers the growing of it outdoors and under glass; ask for a copy with your order or otherwise.

HEADING VARIETIES (Kopf Salat)

Michell's All-Right. This is not a variety for forcing, but rather for an early spring crop in the hotbed or outdoors; and for sowing in August for late autumn under sash or outside; where it is not affected by cold, which with some sorts turns them brown. On the other hand, this variety retains a rich green color. The heads are very large, often 12 inches in diameter, very solid and with a rich buttery heart of light yellow. Don't use this variety for a summer crop. Pkt. 10c., 15c. per ½ oz., oz. 25c., 75c. per ¼ lb., lb. \$2.50.

Michell's Number One. This lettuce is a positive header under the most trying conditions. It is tender, of a decided buttery flavor, and immensely large. A valuable type for hot weather; also desirable for autumn use. This commands twice the price of other sorts, should not be used for forcing. Pkt. 10c., 15c. per ½ oz., per oz. 30c., \$1.00 per ¼ lb., per lb. \$3.00.

Michell's Spotted Dutch Butter (Private Stock). A medium sized head, light green leaves with a delicate yellow heart. The outer leaves are tinged with brown on the edges, hence the word spotted being applied. This desirable sort is suitable for forcing as well as sowing outdoors in summer. Pkt. 10c., 15c. per ½ oz., oz. 30c., \$1.00 per ¼ lb., lb. \$2.50.

Spotted Dutch Butter Lettuce (Usual Strain). Pkt. 5c. (10c. per large pkt.), 20c. per oz., ¼ lb. 50c., \$1.50 per lb.

May King. The first solid head lettuce to mature outdoors, hence its name; it is of good size with a very tender full heart. Suitable for sowing under sash in the early spring; the outside leaves are tinged a golden brown. Pkt. 5c., 10c. per ½ oz., oz. 20c., 60c. per ¼ lb., lb. \$2.00

Big Boston. A large flat cabbage-headed variety, splendid for midsummer or fall use or under glass in the early spring and autumn, a delightful shade of light green tinged light brown on the outer leaves. Pkt. 5c. (10c. per large pkt.), 20c. per oz., ¼ lb. 60c., \$2.00 per lb.

Mammoth Salamander. One of the best of the midsummer varieties, resisting heat and drought wonderfully and remains in heading condition longer than many others. The heads are enormous, of a fresh green color; the loose leaves can all be used, as they are extremely brittle and tender. This strain is an improvement on the usual form. Pkt. 5c. (10c. per large pkt.), oz. 20c., 50c. per ¼ lb., lb. \$1.75.

MICHELL'S "ALL RIGHT" LETTUCE (See Cut)

"First in Spring—Last in Fall"



All Heart. An excellent lettuce for either spring or summer use. The head, while large, has a loose heart, which is of a decided buttery flavor, can be used for sowing in frames or in early summer and spring outdoors. Pkt. 10c., 15c. per ½ oz., oz. 25c., 75c. per ¼ lb., lb. \$2.25.

Boston Market. Early small heading variety; one of the best for forcing; the heart is very solid, crisp and pure white. Pkt. 5c. and 10c., 20c. per oz., ¼ lb. 50c., \$1.50 per lb.

Cabbage Head Giant. A monster head lettuce with a full heart, desirable especially for summer use; 6 heads will fill a half bushel basket. Pkt. 10c., 25c. per oz., ¼ lb. 80c., \$2.75 per lb.

California Cream Butter. A good all-round summer lettuce. Heads are large, compact and well formed. It has a decided buttery flavor. Pkt. 5c. and 10c., 15c. oz., ¼ lb. 40c., \$1.25 lb.

Davey's Improved Big Boston. Makes gigantic solid heads; excellent for under glass. 10c. pkt., ½ oz. 20c., 40c. per oz., \$1.25 per ¼ lb.

Emperor Forcing. For sowing in greenhouses or in the open. Heads are not large but very solid. It does not make a suitable head outdoors. Color light green, heart tender and buttery. Pkt. 5c. and 10c., 20c. per oz., ¼ lb. 50c., \$1.60 per lb.

Wayhead. The earliest hard heading lettuce in cultivation, doing remarkably well either under glass or in the open in spring or autumn. The heart is a golden buttery color, and of delicious flavor. Pkt., 10c.; 15c. per ½ oz.; oz., 25c.; 65c. per ¼ lb.

Early Cabbage or White Butter. A wonderful producer of the largest sized heads; while an older variety, it still is in the lead. Excellent to sow in hotbeds for early spring use, while it may be used continuously until autumn. Color a light green with a rich delicate interior, very hardy. Pkt. 5c. and 10c., 15c. per oz., ¼ lb. 45c., \$1.50 per lb.

Hanson Improved. Tremendous solid heads; the outer leaves are curled; the interior is almost white and very tender; stands the heat well, therefore excellent for summer use; this produces probably the heaviest head of lettuce of any variety. Pkt. 5c. and 10c., 20c. per oz., ¼ lb. 50c., \$1.50 per lb.

See opposite page for Plants adapted for making Lettuce Dressings

LAITUE—SALAT—LECHUGA



Lettuce "Unrivaled"

HEADING VARIETIES—Continued

Summer Queen. The most reliable variety during the hot summer months. The heads are enormous, very solid, of a light green color and are much superior to any other variety. It will stay longer without going to seed than any others. 10c. pkt.; ½ oz., 15c.; 25c. oz.; ¼ lb., 75c.

Sensation. Large, solid heads for summer or sowing under glass in spring. 5c. pkt. (large pkt., 10c.); oz., 20c.; 60c. ¼ lb.

Unrivaled. Very large, light green and of a crisp nature. Very desirable for summer use. As a general all-round variety few lettuces can approach it. Pkt., 5c. and 10c.; 20c. per oz.; ¼ lb., 60c.; lb., \$2.00.

Wonderful. Of the cabbage-headed sorts this is a leader; the color is dark green, with white interior; the heads are large, having curled outer leaves, a popular kind for summer. Pkt., 5c. and 10c.; 20c. per oz.; ¼ lb., 50c.; \$1.75 per lb.

LOOSE LEAF OR CUTTING VARIETIES

For early or midsummer use, seed should be sown very thickly. When pulling the young plants try to do so with an effort to thin out the bed, thus allowing the remaining plants to become large. This class is always tender and is preferred by many to the heading varieties.

Grand Rapids (Special Strain). The leading variety in this class for forcing under glass, but it may also be grown successfully outdoors. The leaves are very curly, crisp and brittle, and have a palatable flavor. Pkt., 5c. (10c. per large pkt.); 20c. per oz.; ¼ lb., 50c.; \$1.50 per lb.

Black Seeded Simpson. Ideal for midsummer use, as it withstands the most trying conditions of heat and drought. When matured, presents a formidable loose head with finely fringed leaves. Pkt., 5c. (10c. per large pkt.); 15c. per oz.; ¼ lb., 45c.; \$1.50 per lb.

Early Curled Simpson (White Seeded). Similar to the above and adapted especially for earlier growing and use. Pkt., 5c.; 10c. per large pkt.; oz., 15c.; 45c. per ¼ lb.; lb., \$1.50.

Silesian. This variety should be cut instead of pulled, as it makes new growth from the same root. A light green color and when given plenty of room will form a large loose head. Pkt., 5c. (10c. per large pkt.); oz., 15c.; 45c. per ¼ lb.; \$1.50 per lb.

COS, OR ROMAINE, OR CELERY LETTUCE

Of French origin, this type, as will be seen by the illustration, differs greatly from the American varieties by its peculiar upright growth and its decided flavor. To have it real tender the heads must be tied together at the top so that the inner leaves blanch. It is best adapted to outdoor planting and stands the heat well. When thinning out remember that they require less room than the regular heading varieties.

Kingsholm Cos. The largest and best heading variety of this type. The inner leaves blanch almost pure white and have little or no rib, the heads are very full throughout and therefore contain more edible part. Pkt., 5c. (large pkt., 10c.); ½ oz., 15c.; 25c. per oz.; ¼ lb., 60c.

Trianon Self-Folding. The peculiarity of this sort lies in the fact that the crown of leaves overlap each other which closes over the heart, thus rendering it self-blanching. It is very early and ready for use ahead of the Kingsholm variety. Pkt., 5c. (10c. per large pkt.); ½ oz., 15c.; oz., 25c.; 60c. per ¼ lb.; lb., \$1.50.

LETTUCE PLANTS

We can supply these at all seasons in heading varieties. 40c. per 100 (postpaid, 50c.); \$3.00 per 1000.



Cos or Romaine Lettuce "Trianon Self Folding"

PLANTS AND SEEDS OF PLANTS USED FOR GARNISHING AND FLAVORING LETTUCE

Tarragon (Estragon). This plant is perfectly hardy and once established remains for years, the foliage is finely cut and spread over the lettuce. It is also put into vinegar, to which it imparts a flavor. Plants, 25c. each; doz., \$2.50.

Chervil. One of the most delicious flavoring plants in cultivation, the leaves resemble a fern leaf parsley, are finely cut and mixed with the lettuce, or they can be distributed as gathered on top. To have a succession, sow seed every

two weeks. Seed, 5c. pkt. (10c. per large pkt.); oz., 15c.; 50c. per ¼ lb.; \$1.75 per lb.

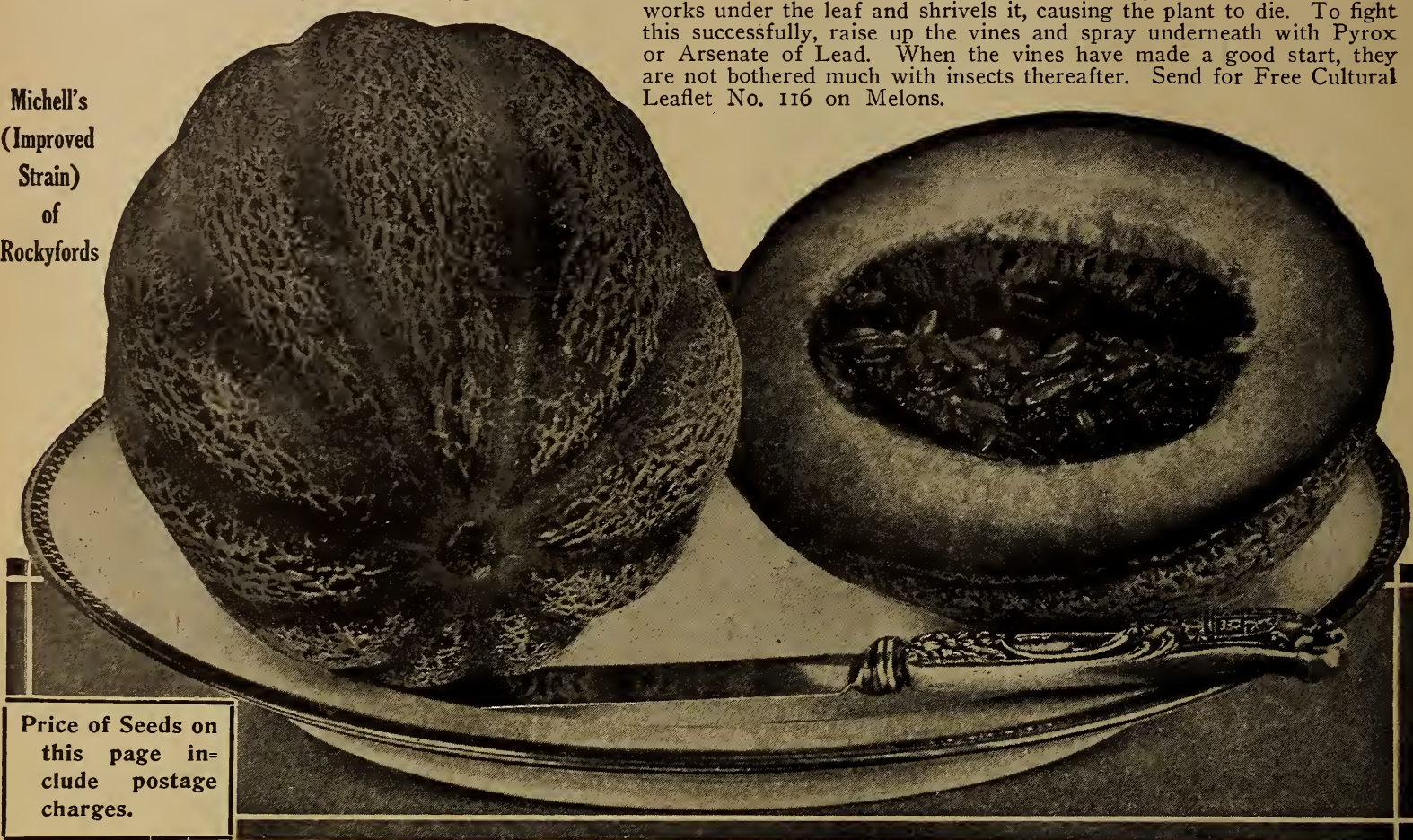
Chives. This possesses a delicate onion flavor liked by many, it adds a piquancy without being objectionable like onion. The top is cut off the plant (not too close) and chopped finely and added in small quantities to the dish of salad. It is hardy and needs to be planted once only. Clumps, 10c. each; doz., \$1.00; \$7.00 per 100.

MICHELL'S MUSKMELON or CANTELOUPE

One ounce will plant 75 hills;
2½ lbs. for an acre.

While these do best or reach their greatest perfection in a light sandy loam, any good well-prepared garden soil suits them. Plant when the ground has become permanently warm in hills 6 feet apart each way, 8 to 10 seeds in a hill. After the second tier of leaves have formed, thin out to 4 plants. Watch carefully for insects of various kinds, especially the melon louse that works under the leaf and shrivels it, causing the plant to die. To fight this successfully, raise up the vines and spray underneath with Pyrox or Arsenate of Lead. When the vines have made a good start, they are not bothered much with insects thereafter. Send for Free Cultural Leaflet No. 116 on Melons.

Michell's
(Improved
Strain)
of
Rockyford



Price of Seeds on
this page in-
clude postage
charges.

Henderson's Bush. Compact grower; melons like the Jenny Lind variety; flesh green shaded salmon. Of delicious flavor. Pkt., 10c.; 20c. per oz.; ¼ lb., 65c.; \$2.25 per lb.

Burrel Gem. Like the Rockyford, except the flesh is a rich orange. With only a small seed cavity. Pkt., 5c. (10c. per large pkt.); 15c. per oz.; ¼ lb., 40c.; \$1.25 per lb.

Defender. Salmon flesh, oval-shaped, of fine flavor; medium size, slightly ribbed; an older variety which lately has come into great demand on account of its good qualities. 5c. and 10c. pkt.; oz., 15c.; 40c. ¼ lb.; lb., \$1.25.

Eden Gem. An improved Rockyford, but more round in shape and not ribbed, but heavily netted; thick green flesh of delicious flavor. 5c. and 10c. pkt.; oz., 15c.; 40c. ¼ lb.; lb., \$1.25.

Emerald Gem. Among the standard varieties, this has long been a leader. The flesh, which is thicker than any other melon of the same shape, is a rich salmon shade and ripens extremely close to the rind. It is exceedingly sweet and one of the melons, when you eat once of, you remember for a long while. Pkt., 5c. (10c. per large pkt.); oz., 15c.; 40c. per ¼ lb.; lb., \$1.25.

Extra Early Hackensack. A selection of the old Turk's Cap type, ripening fully a week earlier. It is well netted, deeply ribbed, making it ideal for cutting in slices on account of its large size. The flesh is light green, very thick and ripens well to the rind. The shape is even more flat than the Emerald Gem. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

Fordhook. This is claimed to be one of the best melons ever introduced. Of flat shape like Emerald Gem, on which it is really an improvement. The flesh is a beautiful salmon orange, surprisingly sweet. The fruits are very large, often weighing 2 lbs. each; is an early variety, is valuable and always prolific. The netted rind is very thin and can be eaten very closely. Pkt., 5 and 10.; 15c. per oz.; ¼ lb., 40c.; \$1.25 per lb.

Delicious Gold Lined. Flesh thick, fine-grained and sweet; color green, with a gold margin next the seed cavity; slightly oval and heavily netted. Pkt., 5c. and 10c.; 15c. per oz.; ¼ lb., 40c.; \$1.25 per lb.

Hoodoo. Medium size, round shape, of deep orange color, exceedingly luscious, a healthy grower and heavy producer. Pkt., 5c. and 10c.; 15c. oz.; ¼ lb., 40c.; \$1.25 per lb.

Jenny Lind. A small, flat, very early sort, heavily netted and ribbed with green flesh, an altogether good variety to plant with others, using this for the first picking. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

Michell's Delicious. This deservedly enjoys a good name, it is one of the very large irregular pumpkin-shaped melons with a smooth silver-gray rind. The flesh is very deep orange-salmon. Pkt., 15c. (2 for 25c.); 30c. per ½ oz.; oz., 60c.; \$2.00 per ¼ lb.

Michell's (Improved Strain) Rockyford. The outside is a light green, well-netted, changing to a grayish color. It is mostly all meat, with a very small seed cavity and often weighs a pound and one-half to the fruit. Fine for market or the home garden. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

FORCING MELONS

Forcing melons can be grown successfully outside in hotbeds. Sow seed in pots in March and transplant to hotbed when three leaves have developed; these will ripen fruit in June and July. For indoor use treat same as forcing cucumbers.

Blenheim Orange, Invincible-Scarlet, Windsor Castle. Each, per pkt., 25c.

Sutton's Ar. In original packets, 50c. per pkt.

MELON NETS. For supporting forcing melons in green-houses; made very strong, will last for a number of crops. \$1.00 per doz.; per 100, \$7.00.

TESTIMONIAL ON MICHELL'S VEGETABLE SEEDS FROM BRITISH WEST AFRICA

I am enclosing an order for seeds. Those previously purchased from you by Mr. Hoover have done splendidly.
Wukari, B. W. A.
C. W. GUNTER.



Testimonial on Michell's Seeds

Cotuit, Mass.

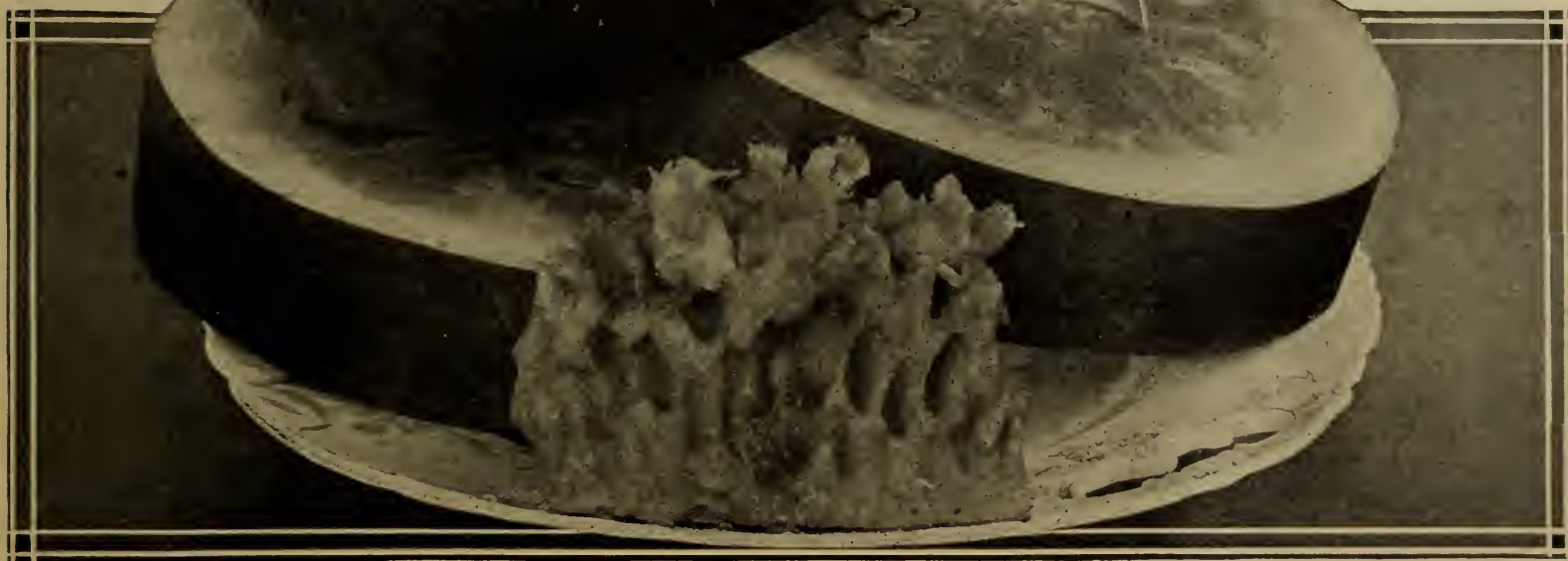
"Your seeds have proved more than satisfactory, in fact, much better than some others I have had. The Tomato Cracker Jack cannot be beat, and you cannot say too much for same. It is just what I've been looking for, and last season it was highly satisfactory to me."

(Signed) E. L. H.

WATER MELON

One Ounce will plant Thirty Hills,
Four Pounds for an Acre.

Plant in hills 10 feet apart each way or in drills 10 feet apart, dropping one seed every three feet. A little land plaster dusted over the young plant will keep the beetle away. Water melons require planting after the soil has become thoroughly warm. Ask for Leaflet No. 116, which covers melon growing fully, mailed free if asked for.



Tom Watson Watermelon. See price and description below.

Cuban Queen. Very similar in description to Dixie, except the melon is of mammoth size; it is very solid and good for shipping or home use. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 25c.; 80c. per lb.

Dixie. The name attaches to this variety a peculiar recollection of things truly Southern, where this melon is at home. 'Tis one of the old-time favorites, roundish-long in shape. The skin is dark green, mottled light; the flesh is very sweet and ripens close to the rind. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 25c.; 70c. per lb.

Florida Favorite. Large oblong fruit with striped skin; flesh is brilliant pink, of most delicious flavor; very solid and extremely juicy. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; 70c. per lb.

Halbert Honey. An ideal family garden or home market melon. The long fruits with blunt ends are very large and weigh often 50 lbs.; the rind is very thin, dark green, while the flesh is a rich crimson. It tastes like a sugar stick, as it melts under the pressure of the tongue. It is very prolific and is altogether a first-rater. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 30c.; 90c. per lb.

Kleckley Sweets. A sweet one to be sure, with a luscious tenderness all its own. It is not a shipping variety, as the rind sets too close to the ripe fluffy, rich red meat, when in condition to use. The melons average about 20 inches long and ripen quite early. Our strain is grown from the originator's seed stock and we can recommend it highly. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 25c.; 85c. per lb.

Light Icing. Flesh bright red, outside color very light green, round in shape, similar to Dark Icing, except the color of the rind. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 25c.; 80c. per lb.

Mountain Sweet. Early and very large, oblong shape, rind dark green; flesh red, solid and sweet, a gigantic variety from whence its name is derived. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 25c.; 70c. per lb.

GRAND NEW WATERMELON, TOM WATSON

(See Cut)

Tom Watson. (See Cut.) A very handsome large fruit, frequently 2 feet long and 12 inches in diameter. The dark green rind is a contrast to the bright scarlet flesh which, by the way, is of splendid texture and flavor; the sugary meat really melts in your mouth. Nothing can touch it in the melon line for shipping qualities, the rind being tough it will resist plenty of abuse. Pkt., 10c.; 15c. per oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 per lb.

PRESERVING CITRON OR MELON

A large-fruited variety, pure white flesh and thin rind. This is expensive when bought, yet can be grown and preserved by any energetic housewife, who will then also know it to be absolutely pure and good. It is planted like watermelon.

Red Seeded. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; 70c. per lb.

MANGEL WURZEL (See Cattle Beet on page 18)

One of the Many Unsolicited Testimonials

Oak Lane, Philadelphia, Pa.

I should like to take this opportunity of expressing my pleasure in the results obtained from everything I obtained from you. I have not met with one disappointment in seeds, bulbs or plants. One more thing—I do wish to commend the courtesy of your salesmen, who, in the heaviest spring rush, paid as much attention to the smallest order as if they had been great ones.

(Signed) IRENE S. ELDRIDGE.



Prizetaker Onion

Southport White Globe. A beautiful type of an almost round onion, growing to enormous size. This is perhaps the best Onion of all for family use. The flesh, when cooked, is of a rich milky color, tender and delicious flavor and in the raw state it is one of the mildest. Pkt., 5c. and 10c.; 20c. per ½ oz.; oz., 35c.; \$1.25 per ¼ lb.; lb., \$4.50.

White Barletta. Extra early small round variety used principally for pickling. Pkt., 5c. (10c. per large pkt.); 15c. per ½ oz.; oz., 25c.; 80c. per ¼ lb.; lb., \$3.00.

Bermuda White. An early variety producing an immense globe-shaped bulb, producing (if when transplanted about 4 inches apart) gigantic onions the first season. In raw state it is very mild, while, when cooked, the flesh is tender and of a delicious flavor. For slicing it is the best. Pkt., 10c.; 15c. per ½ oz.; 1 oz., 25c.; 75c. per ¼ lb.; 1 lb., \$2.75.

ONION SETS One quart will plant a row about 50 feet.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb in the ground lightly and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for winter storage as early as July 10th. The advantage in planting sets lies in the fact that the young onion is ready in 5 weeks from time of planting, while those grown from seed cannot be used until well in the autumn.

Shipped on Local Orders about March 10, unless otherwise requested

If wanted by mail add 5c. per pint and 10c. per quart for postage.

	Pint	Quart	Quarts	8lb. Pk.	32-lb. Bu.
Yellow	\$0.10	\$0.20	\$0.70		
White .....	.13	.25	.90		
Red .....	.13	.25	.90		
White Multiplier.	.15	.25	.90		
Potato Onion ....	.15	.25	.90		
Shallots .....	.15	.30	1.10		

Tree or Top Onions. Can be supplied in Sept. and Oct.

Garlic Sets. Per lb., 30c.; 10 lbs. for \$2.50.

We give 32 lbs. per bushel on Onion Sets.

ONION

For full size onions, one ounce seed will sow a 100 ft. row; 5 to 6 pounds per acre. If it is desired to grow onion sets, sow 25 to 30 pounds per acre.

Sow in the early spring in rows 2 feet or less apart, according to cultivation method employed. The seed should be firmed in the soil. If it is desired to grow full size onions the first year, thin out when three inches high, so that they stand about two or three inches apart. White onions are mildest in flavor and are recommended for early use. The yellow sorts are best for winter keeping. Cultural Leaflet No. 118 gives excellent instructions in regard to onion growing. Ask for a free copy.

Ailsa Craig. The largest of all onions, often weighing three lbs. and over, each. In England it is the foremost variety and will be seen there on exhibition during all vegetable shows. It is globe-shaped, slightly pointed at the top and base; the color is a beautiful straw yellow. To obtain best results sow seed in the hotbed and later transplanted where it is to grow; in planting place 4 to 6 inches apart and thus procure gigantic specimens. No seed, crop failed.

Prizetaker. This mammoth yellow variety if sown thinly produces full size onions in one season from seed, rivaling with the Bermuda varieties for size and flavor, often weighing 3 lbs. and more. Pkt., 5c. and 10c.; ½ oz., 15c.; oz., 25c.; 90c. per ¼ lb.; \$3.50 per lb.

Danver's Yellow Globe. This almost round in shape onion is extensively sown by the private and market gardener on account of its good keeping qualities. It is a dark straw color and always produces a good crop, growing to large size. Pkt., 5c. and 10c.; ½ oz., 15c.; 25c. oz.; ¼ lb., 90c.; \$3.50 per lb.

Southport Yellow Globe. Similar to the Danvers except larger in size, more like the Prizetaker. This is probably one of the most uniform growing varieties, every bulb being almost perfectly round and of the same size; light straw colored skin. Pkt., 5c. and 10c.; ½ oz., 15c.; 25c. oz.; ¼ lb., 90c.; \$3.50 lb.

Yellow Strasburg (or Dutch). A dark straw color skinned sort, almost flat in shape but a large onion. Its fine keeping qualities is what recommends itself to the home as well as the market gardener. For a yellow sort it is rather mildly flavored; for growing sets more of this variety is sold than any other; one of the best winter keepers. Pkt., 5c. and 10c.; ½ oz., 15c.; 25c. per oz.; ¼ lb., 80c.; \$3.00 per lb.

Large Red Wethersfield. A flat large growing variety. This class are excellent winter keepers, being flavored much like the yellow sorts; full size onions can be grown from the seed in one season. Pkt., 5c. (large pkt., 10c.); oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

White or Silver Skin. The standard white onion for market or home use, it is of very mild flavor, semi-globe shaped and is very uniform in growth and size. Pkt. 5c. (10c. per large pkt.), ½ oz., 15c.; 25c. per oz.; ¼ lb., 90c.; \$3.50 per lb.

ONION CULTURE, a good book by a Practical Grower, 50c. per copy



Choice Home Grown Onion Sets

Ask for Cultural Leaflet No. 118 on Onions

Michell's Maine-Grown Seed Potatoes

Plant 12 to 14
Bushels Per Acre

35

Our Potatoes are grown expressly for seed purposes in the best districts of Maine



GOVERNMENT INSPECTED STOCK

TIME OF SHIPMENT.—Potato shipping with us commences about March 15th (weather permitting), unless otherwise requested. We can ship them at customers risk any time during cold weather.

10 Our potatoes are put up in barrel sacks of 165 lbs. each. Shipment in barrels can be made at a cost of 30c. each for barrels.

10 Prices of larger quantities of White Potatoes than quoted below on application; for the reason that the value of potatoes fluctuates constantly. Customers, however, entrusting us with their orders, will be assured that they will be charged the lowest possible price for strictly Maine grown seed.

LATE OR GENERAL CROP VARIETIES

Gold Coin. A handsome yielder; produces potatoes of the most excellent quality. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Green Mountain. An excellent general crop variety. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Sir Walter Raleigh. A white-skinned main crop potato, resembling Rural New Yorker. One of the best of the late sorts. $\frac{1}{2}$ pk., 30c.; peck, 50c.

State of Maine. An old favorite, grown by every gardener; good keeper. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

White Star. As a kitchen garden variety, or sort for commercial use, there are few as good; excellent for baking; long in shape. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

We can also supply all other varieties of Seed Potatoes.

EARLY SORTS

Beats Them All (Michell's). This famous variety was sent out by us, and has given the best results wherever tried, yielding more than any other early potato, quality fine, extremely early, coming in about one week or ten days earlier than Early Rose. $\frac{1}{2}$ pk., 40c.; 75c. per pk.

Beauty of Hebron. Somewhat earlier than Early Rose, otherwise very similar, good yielder. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Bliss Triumph or Red Bliss. A very early thin-skinned variety, they are frequently offered as southern or Bermuda grown potatoes. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Bovee. Earlier than Early Rose; quality excellent; pink flesh; cooks white; dwarf in growth. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Early Ohio. A seedling of the Early Rose, ripens about a week earlier; $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Early Rose (Houlton or Maine). A leading variety for earliness, quality and productiveness. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Early Standard. Extremely early, good keeper, uniform in size, producing principally large potatoes. $\frac{1}{2}$ pk., 35c.; 60c. per pk.

Irish Cobbler. A splendid sort, almost round in shape; heavy producer. $\frac{1}{2}$ pk., 30c.; 50c. per pk.

Noroton Beauty. The earliest and most productive potato grown, and of superb table qualities. Red skin. $\frac{1}{2}$ pk., 40c.; 65c. per pk.

POTATO SCAB DESTROYER

Dilute 1 part to 15 parts of water and immerse the uncut sound tubers for 2 hours. Pt., 50c.

SPECIAL OFFER—FREE

To each purchaser (desiring it) ordering 1 bbl. sack or more of any one variety of Seed Potatoes, if asked for, we will mail free or include with order, where possible, a copy of **Potato Culture** (by Rogers). This book costs 50c. and can be bought independent of a potato order at this price.

CONCAVE POTATO KNIVES

For cutting out the eyes of seed potatoes prior to planting. Made of best steel with concave blade. 25c.; 3 for 70c., postpaid.



Michell's "Beats them All"



MICHELL'S GARDEN PEAS

1 qt. will plant 100 ft. of row, one and a half to two bushels per acre

Allow for Postage if wanted by mail. Peas weigh 1 lb. per pint, 2 lbs. per qt.

Large Pkts. of all Varieties 10c. Postpaid.

The smooth seeded varieties can be sown as soon as the ground is open; the wrinkled sorts when the ground has become warmer. The distance for planting apart depends somewhat on the variety. To have a continuous crop, sow weekly up to June 15th, and again August 15th. For the last planting, 60 days before frost, use the dwarf early varieties. Cultural Leaflet No. 121 covers the growing of peas thoroughly, it is free.

EXTRA EARLY VARIETIES

Alaska. Smooth seeded, very early, height 2½ feet. 15c. per pt.; 30c. per qt.; 4 qts., \$1.10; \$1.75 per peck.

Ameer. A very large podded early pea, following the Alaska. It is a heavy cropper. Pt., 15c.; 30c. qt.; 4 qts., \$1.10; \$2.00 per pk.

American Wonder. The earliest wrinkled dwarf variety, exceedingly sweet, height 10 to 12 inches. 20c. per pt.; per qt., 35c.; \$1.25 per 4 qts.; peck, \$2.00.

Bountiful. A bluish round pea of large size. The pods are very large and well filled; it is very early, a good cropper, suited to the first and last planting, grows 24 to 30 inches high. Pt., 20c.; 35c. qt.; 4 qts., \$1.25; \$2.25 per peck.

Dandy Extra Early. These are a selection of the Eureka, but will be found far superior; smooth seeded, very prolific and desirable for the kitchen garden, height 24 inches. Per pt., 20c.; 35c. per qt.; per 4 qts., \$1.30; per peck, \$2.25.

Early June. A green seeded smooth pea, desirable for first planting, an improvement on Alaska; height, 2½ feet. 20c. per pt.; per qt., 30c.; \$1.10 for 4 qts.; peck, \$1.75.

Early Morn. One of the earliest of wrinkled peas, earlier and better, it is claimed, than Gradus or Thos. Laxton. The pods are large and well filled, mature in 60 days and is very prolific. Pt., 20c.; 35c. per qt.; 4 qts., \$1.25; \$2.25 per peck.

Eureka. A great producer and extremely early, smooth seeded; height, 24 inches. 15c. per pt.; qt., 30c.; \$1.00 per 4 qts.; per peck, \$1.75.

Premium Gem (or McLean's Little Gem). Similar to American Wonder, but a heavier producer, wrinkled seed; height, 18 inches. 20c. per pt.; per qt., 30c.; 4 qts., \$1.10; \$2.00 per peck.

Laxtonian. A real sweet marrowfat extra early variety, growing about 12 inches high; very prolific and deserves extensive planting. Pt., 20c.; 40c. qt.; 4 qts., \$1.40; \$2.50 per pk.; bushel, \$10.00.

Gradus Peas
Gradus or Prosperity. Never was there a pea offered which is so greatly demanded as this very early sort. It is exceedingly luscious, wrinkled and a producer of gigantic pods and peas; height, 36 inches. 20c. per pt.; qt., 40c.; 4 qts., \$1.50; per peck, \$2.50.

Little Marvel. Wrinkled; dwarf, 18 to 20 inches; prolific and sweet. Pt., 20c.; 40c. qt.; 4 qts., \$1.40; \$2.50 per peck.

Mitchell's Special Ex. Early. Of the smooth seeded sorts this is the peer. Extremely early, lusciously sweet and very tender, a grand yielder; height, 24 inches. 25c. per pt.; 45c. per qt.; 4 qts., \$1.75; \$3.25 per peck.

Nott's Excelsior (Improved Strain). A splendid early wrinkled pea, producing heavy crops of full pods very early. One of the leading varieties for the home or market garden. Height, 15 inches. 25c. per pt.; qt., 40c.; 4 qts., \$1.50; \$2.75 per peck.

Nott's Excelsior (Usual Strain). Pt., 20c.; 35c. per qt.; per 4 qts., \$1.20; peck, \$2.25.

MICHELL'S GARDEN PEAS—Continued

37

Large Pkts. all Varieties 10c. Postpaid

If pints and quarts of peas are wanted by mail allow for postage. 1 pt. weighs 1 lb., 1 qt. weighs 2 lbs.

EXTRA EARLY VARIETIES (Continued)

Sutton's Excelsior. This wrinkled variety is quite hardy and can be planted very early. It is dwarf, growing about 16 inches and makes a long broad pod, well filled; it follows the extra sorts and is a great producer. Pt., 25c.; 40c. qt.; 4 qts., \$1.40; \$2.25 per peck.

Thos. Laxton. On a par with Gradus in quality, heavy producer, wrinkled, exceedingly early. The pods are large and filled to the tip with large Peas of excellent flavor. Its strong vine and heavy cropping qualities make it very suitable for an early crop in the private garden; height, 36 inches. 20c. per pt.; qt., 40c.; \$1.50 for 4 qts.; pk., \$2.50.

The Pilot or Leader. The earliest of round seeded varieties. The pods and peas are nearly as large as those of Gradus. They can be planted, of course, much earlier. The vines are of vigorous growth, 3 feet high and produce an abundance of pods. The peas are of finest flavor. Per pt., 20c.; 40c. per qt.; 4 qts., \$1.50; \$2.50 peck.

SECOND EARLY VARIETIES

Potlatch. A grand wrinkled variety, similar to Daisy, very sweet, produces pods well filled with peas. 20c. pt.; qt., 35c.; \$1.30 per 4 qts.; peck, \$2.50.

Bliss Abundance. Produces very large pods containing six and even more peas of a delicious flavor; a great yielder; wrinkled; height, 20 inches. Per pt., 15c.; 30c. per qt.; per 4 qts., \$1.00; \$1.80 per peck.

Daisy or Dwarf Telephone. One of the best medium early sorts, bearing heavy pods in the greatest abundance; wrinkled and very sweet; height, 18 inches. Per pt., 20c.; 35c. per qt.; \$1.25 for 4 qts.; peck, \$2.25.

Harvester (New). This is a grand variety for the home garden. The past summer, under adverse conditions, this variety yielded handsomely compared with other varieties at our trial ground. The pods contain frequently as many as 10 peas of delicious quality. It is wrinkled, grows about 18 inches high and is a grand producer. Per pt., 25c.; qt., 40c.; \$1.50 for 4 qts.; peck, \$2.75.

Heroine. A fine wrinkled variety, claimed to be one of the finest peas in existence; height, 2 feet; a great cropper. Per pt., 20c.; 35c. per qt.; 4 qts., \$1.25; peck, \$2.25.

Long Island Mammoth. Largely in use among private and market gardeners; it yields handsome large peas, very tender; height, 3½ feet. Per pt., 15c.; 30c. per qt.; 4 qts., \$1.10; peck, \$2.00.

Pride of the Garden. An excellent dwarf variety for early summer use; pods containing as many as nine peas. Per pt., 25c.; 40c. qt.; 4 qts., \$1.50; peck, \$2.75.

Idlewood, N. J.

The Telephone Peas purchased from you this spring are the best I have ever seen. My patch of these is a great show. I made my first picking June 21st.

MAX LANDGRAF.

GENERAL OR LATER CROP VARIETIES

Champion of England. A very tall rank grower, but a wonderful yielder of delicious quality peas; seed wrinkled; height, 5 feet. Per pt., 15c.; 30c. qt.; 4 qts., \$1.10; peck, \$1.75.

Dwarf Champion. Possesses most all the good qualities of the famous Champion of England, and having the further advantage of being dwarf; a very delicious pea which should be planted largely; height, 2 feet. Per pt., 20c.; 35c. per qt.; \$1.25 for 4 qts.; peck, \$2.25.

Stratagem (Improved). Immense pods containing an abundance of good, large tender peas; seed wrinkled; height, 20 inches. Per pt., 20c.; 35c. per qt.; 4 qts., \$1.25; peck, \$2.25.

Telephone (Tall). The finest late wrinkled pea grown; exceedingly sweet; an abundant producer; height, 3½ feet. Per pt., 15c.; 30c. per qt.; 4 qts., \$1.10; \$2.00 per peck.

SIX FIRST CLASS PEAS

Michell's Spec. Ex. Ea., Notts Excelsior, Harvester, Gradus, Thos. Laxton, The Pilot.



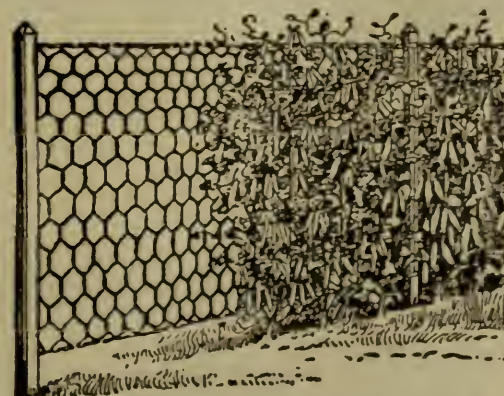
Peas, Thos. Laxton

SUGAR OR EDIBLE POD PEAS

This type produces large, well-filled pods. The latter are cooked with the peas intact. They are very tender and exceedingly sweet.

Dwarf Sugar. Gray seed; height, 2 feet. 20c. pt.; 40c. per qt.; \$1.50 for 4 qts.; peck, \$2.75.

Melting Sugar. White seed; height, 4 feet. 20c. pt.; 40c. per qt.; \$1.50 for 4 qts.; peck, \$2.75.



PEA TRELLIS

The ideal support for garden peas, neater, more economical than brush; can be rolled up when through with and stored, taking very little space. Made of strong galvanized netting and substantial uprights, neatly painted and finished; indestructible and will last for years. Ten ft. sections, 48 inches high, \$1.00 per section; 10 sections for \$9.00.

Farmogerm for Garden Peas. Means bigger crops, healthier vines, early and more continuous crops. Per trial bottle, 25c. and 50c.; \$2.00 per acre bottle. It will pay you to use this when you plant peas. (See page 57).

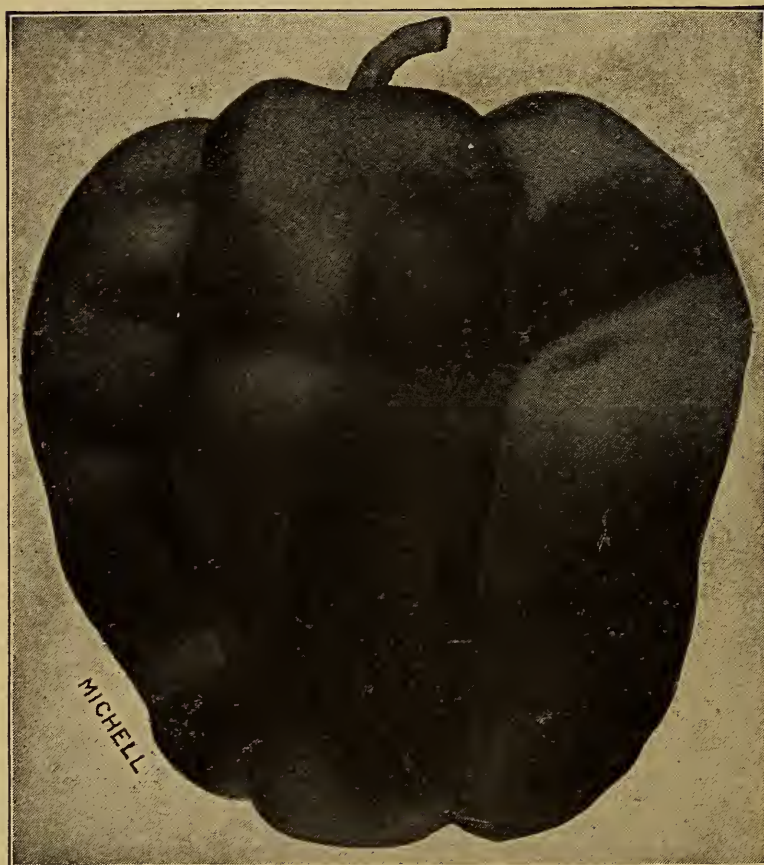
(hn)



Double Curled Covent Garden Parsley

PARSLEY PLANTS (*Ready in April*)

Large specimens, pot-grown, ready for use. 50c. per doz., per 100 \$4.00. These plants cannot be mailed satisfactorily.



Chinese Giant Pepper

PEPPER PLANTS (*Ready in May*)

Pot Grown Plants. 50c. per doz., per 100 \$4.00.

Hotbed Grown. 20c. per doz., per 100 \$1.25.

PARSLEY One ounce will sow a row 100 ft. long

After soaking the seed for a few hours in warm water, it may be sown in rows 18 inches apart and when 2 inches high thin out to stand 4 inches apart in the row. It takes parsley seed from 3 to 6 weeks ordinarily to germinate, so that a little patience in growing this is a necessary requisite. Cultural directions are fully covered in Leaflet No. 120, ask for a copy.

Champion Moss Curled. Beautifully crimped and curled. It can be cut the year round. Pkt. 5c., 10c. per oz., $\frac{1}{4}$ lb. 35c., \$1.25 per lb.

Double Curled or Covent Garden. A great improvement over all other varieties; a nicely curled leaf which has a tendency to retain its deep green color the entire season. Pkt., 5c.; 15c. per oz.; $\frac{1}{4}$ lb., 40c.; \$1.25 per lb.

Hamburg or Rooted. The fleshy roots are used for flavoring soups, stews, etc. Pkt., 5c. (10c. per large pkt.); oz., 15c.; $\frac{1}{4}$ lb., 40c.; \$1.25 per lb.

TESTIMONIAL

Bozeman, Montana.
Thanks for promptly filling my order. We've
always been pleased with your seeds.
TRACY FLORAL CO.

PEPPER One ounce of seed produces 1200 plants

Sow the seed in a hotbed or window box about March 1st, transplant to the open when all danger from frost is over. Set plants in rows 3 feet apart, 15 inches in the row. For complete cultural directions send for Leaflet No. 122, mailed free or included with orders.

New Apple Pepper. A variety of novel appearance, having the form of an apple standing upright on the plant; first green it afterwards turns a brilliant red, very mild in flavor. For prolificness nothing can surpass it, beginning very early it continues to bear until killed by frost; about 3 inches in diameter. 10c. pkt.; 20c. $\frac{1}{2}$ oz.; 40c. oz.; $\frac{1}{4}$ lb., \$1.50.

Chinese Giant. This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very shy seeder. Fine for stuffed mangoes. Pkt., 10c.; 25c. $\frac{1}{2}$ oz.; oz., 45c.; \$1.50 per $\frac{1}{4}$ lb.

Large Bell or Bull Nose. The standard pepper for either market or home consumption. Very thick flesh, perfectly mild, and a great producer. The large fruits are green, but later turn a vivid scarlet; fine for slicing on tomatoes or stuffed as mangoes. Pkt., 5c. (10c. per large pkt.); $\frac{1}{2}$ oz., 15c.; oz., 30c.; \$1.00 per $\frac{1}{4}$ lb.

Neapolitan. This variety is an excellent one, grows a long shape and somewhat narrow; it stands upright on the bushes. The fruit is sweet and bright red; a very early sort. Pkt. 10c., $\frac{1}{2}$ oz., 15c.; oz., 30c.; \$1.00 per $\frac{1}{4}$ lb.

Large Sweet Spanish. A variety rivaling with Chinese Giant, is, however, not as large. Color and shape very similar, also late in maturing; for mangoes or pepper hash this is an ideal sort. Pkt., 5c. (10c. per large pkt.); $\frac{1}{2}$ oz., 15c.; oz., 30c.; \$1.00 per $\frac{1}{4}$ lb.

Hot Bull Nose. This variety is identical with the Sweet sort bearing the same name, except it is used where a stronger flavor is wanted and cannot be served as a mango. Pkt. 5c. (10c. per large pkt.), $\frac{1}{2}$ oz. 15c., 30c. per oz., $\frac{1}{4}$ lb. \$1.00.

MISCELLANEOUS PEPPERS

Cayenne. A long red variety, very hot and used principally for bunching with pot herbs. Pkt. 5c. (10c. per large pkt.), $\frac{1}{2}$ oz. 15c., oz. 25c., 80c. $\frac{1}{4}$ lb.

Celestial. A Chinese variety bearing roundish upright pods of various colors on one bush, this makes a decorative plant for the garden. Pkt. 5c., $\frac{1}{2}$ oz. 15c., oz. 25c., 80c. per $\frac{1}{4}$ lb.

Ruby Giant (New). Very large; adapted for stuffing; mild flavor. Pkt., 10c.; 20c. $\frac{1}{2}$ oz.; oz., 35c.; \$1.25 per $\frac{1}{4}$ lb.

Golden Dawn. A large yellow variety, shaped like the Chinese Giant, very sweet. Pkt. 5c., $\frac{1}{2}$ oz. 15c., oz. 25c., 80c. per $\frac{1}{4}$ lb.

Red Cherry. A small upright growing sort; very hot in flavor. Pkt. 5c., $\frac{1}{2}$ oz. 15c., oz. 25c., 85c. per $\frac{1}{4}$ lb.

Ruby King. A large red variety resembling Bull Nose. Pkt. 5c.; $\frac{1}{2}$ oz., 15c.; oz., 30c.; \$1.00 per $\frac{1}{4}$ lb.

Small Chili. Used principally for seasoning and making sauce; the small very narrow red pods are very hot; in a dried state they are an excellent tonic for the parrot. Pkt. 5c., $\frac{1}{2}$ oz. 15c., oz. 25c., 85c. per $\frac{1}{4}$ lb.

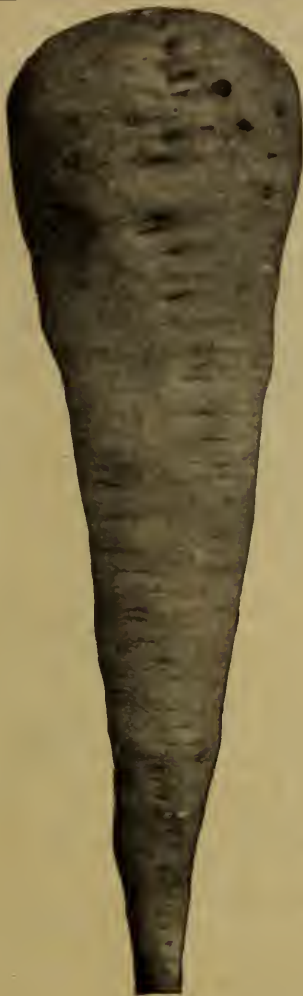
PARSNIP

One ounce will sow a row 150 feet long; 5 lbs. per acre.

Sow early in the spring in drills about 24 inches apart, covering the seed slightly, when the plants are 2 or 3 inches high, then thin out so the roots will develop; cultivate well during the growing season. The roots are especially good when slightly frosted; they may be left in the ground all winter or taken up and stored in the cellar. There are several ways of preparing them for the table, the best one probably being browning or roasting them in the oven with a choice roast of meat; cooked in this manner they excel the finest sweet potato. Send for Cultural Leaflet No. 120 on growing and storing parsnips.

Improved Sugar or Hollow Crown. A very thick broad-topped root, which makes it easily lifted. Flesh is very fine grained and sweet, while the outer surface is smooth and almost white, it yields enormous crops growing to a large size. Pkt. 5c., 10c. per oz., ¼ lb. 25c., 75c. lb.

Gurnsey or Student. Slightly shorter than the Hollow Crown variety with a somewhat broader top or shoulder; it can also be sown a trifle later if necessary. Pkt. 5c., 10c. per oz., ¼ lb. 25c., 75c. lb.



Guernsey Parsnip

PEANUTS

One bushel nuts unshelled will plant an acre, but shell must be removed beforehand.

It is generally believed peanuts cannot be grown anywhere north of Virginia, but this is a mistake, most any well drained garden soil suits them, where they will yield a big crop. The peanut plant rather enriches the soil instead of impoverishing it, as it is an abundant gatherer of free nitrogen. A few important points are necessary in growing them and these are elaborated on in special Culture Leaflet No. 119, which may be had free for the asking.

Selected Virginia, 15c. pint (by mail 20c.), 25c. qt. (by mail 35c.), 50c. for 4 qts., peck 75c.

POT MARIGOLD HERB (Annual)

Used extensively for medicinal purposes of various kinds. See Cultural Leaflet No. 113 covering herbs. Pkt. 5c., 10c. per ½ oz., oz. 15c.

ILOILO (PANAY), PHILLIPINE ISLANDS.

Send me at once the enclosed order. Your seeds beat anything I've ever had in that line.

CAPT. JESSE M. BAKER,
Quarter-Master, U. S. A.

**SANTA LUCIA, HONDURAS.
CENTRAL AMERICA.**

Please send me this order at once, despite being over 5,000 feet above sea level here, your seeds have always been satisfactory.

H. A. OWEN.



Pumpkin—Large Tours or Mammoth

PUMPKIN

One ounce will plant 25 hills; 4 to 6 lbs. for an acre.

Plant any time after the ground has become permanently warm, about four seeds to the hill; the latter to be about 8 feet apart each way. To obtain strong vines they may be pinched back somewhat, and if large specimens are desired, leave but one or two pumpkins on a vine. Do not plant near other vine crops, as they may hybridize the latter and spoil the taste; they can also be planted among corn after the last working. Cultural Leaflet No. 124 covers pumpkin growing, and is free.

Large Tours or Mammoth. The biggest pumpkin in cultivation, producing fruits that often weigh 200 lbs. When fully ripened it is of a golden orange color, free from stringiness and ideal for pie-making or cooking. Pkt. 5c., 10c. per oz., ¼ lb., 30c., \$1.00 lb.

Tennessee Sweet Potato. An oblong-shaped, medium-sized fruit with a very light buff yellow skin, for pies it is delicious, while for cooking for table use it is dry and tasty, resembling the flavor of mashed sweet potatoes. Pkt. 5c., 10c. oz., ¼ lb. 30c., \$1.00 per lb.

Large Cheese. A very large, flat, ribbed fruit, of a beautiful buff yellow color; the interior is of fine quality. An enormous producer, ideal for market or home gardens and canning purposes. Pkt. 5c., 10c. per oz., ¼ lb. 30c., \$1.00 lb.

Japanese Pie. A crook-necked variety, deep green striped darker, which turns to a rich golden yellow. The fruit sets and matures early. The name given to it is derived from the seed which are curiously marked like Chinese letters of the alphabet. Pkt. 5c., 10c. per oz., ¼ lb. 30c., \$1.00 lb.

Winter Luxury. Known as the New England pie pumpkin. No Thanksgiving dinner there is complete without the palatable pumpkin pie, made from this variety. This is also used for making Jack-O-Lanterns, for which purpose it is well suited on account of its very round and symmetrical shape. The skin is a russet yellow, while the flesh golden orange when ripe. 5c. pkt., oz. 10c., 30c. per ¼ lb., lb. \$1.00.

Cashaw or Golden Crook Neck. A very meaty sort; suitable for pie or stock feeding purposes; flesh golden yellow and very tender. Pkt. 5c., 10c. per oz., ¼ lb. 30c., \$1.00 per lb.

Connecticut or Common Field. Shape almost round; fruits produced in great abundance; flesh coarse and suitable only for stock feeding; color light yellow. 5c. per oz., ¼ lb. 15c., 50c. per lb.; 5 lbs., \$2.00.

MICHELL'S CHOICE RADISH SEED (RADIS—RADIES) (RAVANELLI)

One ounce of seed will sow a row about 75 feet long; 8 to 10 lbs. are required for an acre.



Michell's Private Stock Cardinal Globe Radish

Radishes should be sown in good rich ground, where they can make rapid growth, for then only do they produce the best results. There are many varieties now from which a selection can be made for sowing at almost any season of the year, with proper facilities. The winter radishes are sown in July and are developed by autumn, at which time they may be taken up and stored in cool cellars and covered with sand.

EARLY SORTS

Brightest Scarlet, Half Long. Entirely distinct, being a vivid scarlet color, tipped with white. Pkt., 5c.; 10c. per oz.; ¼ lb., 20c.; 60c. per lb.

Cardinal or Scarlet Globe. The very best forcing variety, is of globular shape and brilliant cardinal red color. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

Cardinal Globe (Improved Strain). This popular radish will be welcomed readily in an improved form, the color and shape are perfect. Pkt., 5c.; 15c. per oz.; ¼ lb., 40c.; \$1.25 per lb.

Crimson Giant. Turnip shaped; very large and tender. Pkt., 5c.; 15c. per oz.; ¼ lb., 35c.; \$1.00 per lb.

Early French Breakfast. Oblong shape, rapid grower, very mild and tender, of a beautiful scarlet color, tipped with white. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 85c. per lb.

Fireball. Turnip shaped; brilliant scarlet color, crisp, tender, of mild flavor; useful only as a forcing variety or for early spring use. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 85c. per lb.

Icicle. A magnificent white variety of fine taste, grows 3½ to 4 in. long in 22 days. Also suitable for summer. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 85c. per lb.

Icicle (Improved Strain). A selection of seed made from perfect roots, thus ensuring utmost uniformity. Pkt., 5c.; 15c. oz.; ¼ lb., 40c.; \$1.25 per lb.

Long Scarlet Short Top or Salmon. The standard variety; long bright scarlet with small top. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 80c. per lb.

Round Red Forcing or Button. Very quick in maturing. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 85c. per lb.

EARLY SORTS—Continued

Round White Forcing or Turnip. An excellent small solid variety. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 85c. per lb.

White Box, Felton's. (Private stock.) A selection of the old reliable White Box radish, more perfect form, producing shorter tops, and does not have a tendency to grow long in shape. Pkt., 5c.; 15c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

White Box, Philadelphia Grown. Perfectly round, smooth skin, pure white. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 75c. per lb.

SUMMER SORTS

Beckert's Chartier (Long). Color bright salmon scarlet, shading to white as it approaches maturity; it is very crisp, tender, and of mild and pleasant flavor. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; 75c. per lb.

Large White Summer Turnip. Large, turnip-shaped, white, crisp and mild. Pkt., 5c.; 10c. per oz.; ¼ lb., 20c.; 60c. per lb.

Long White Lady Finger. A fine white, crisp and mild variety. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 75c. per lb.

White Strasburg. Oblong of a pure white color, and mild flavor. Pkt., 5c.; 10c. per oz.; ¼ lb., 20c.; 70c. per lb.

WINTER VARIETIES

California White Winter. Grows 8 to 10 inches long. One of the best for winter. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 75c. per lb.

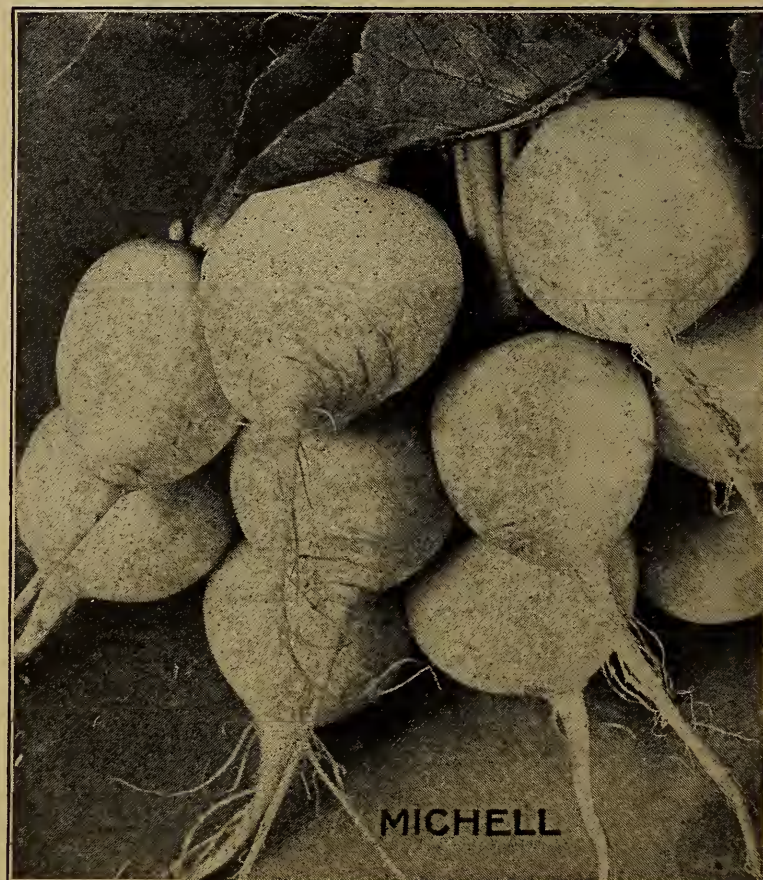
Celestial or White Chinese. Large size. Pure white, excellent keeper. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

Half Long Black. A great improvement on the old Long Spanish Radish. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.

Long Black Spanish. A favorite among winter sorts. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 75c. per lb.

Round Black Spanish. Like the above, except in form. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 75c. per lb.

China Rose. Bright rose color; flesh firm. One of the best for winter use. Half-long in shape with a scarlet blunt tip. Winter radishes should be cultivated more extensively than what they are. Pkt., 5c.; 10c. per oz.; ¼ lb., 25c.; 70c. per lb.



Felton's Stock White Box Radish



The method of placing a barrel without a bottom over a Rhubarb clump has a tendency to draw up the length of the stalks, thus increasing the yield.

RHUBARB

This can be grown from seed as well as roots. Seed should be sown outdoors in April in rows 3 ft. apart, the following spring they should be transplanted into permanent beds, the roots placed 3 feet apart each way; the year following that, or two years after sowing the seed, it may be used. Roots may be planted in October or in the spring up to May 15th.

Victoria. Immense long stalks of a cherry red color, which cook splendidly, have no strings or coarse matter, this makes it a most popular variety. Pkt. 5c. (10c. per large pkt.), oz. 15c., 40c. per $\frac{1}{4}$ lb., lb. \$1.25.

VICTORIA RHUBARB ROOTS

(Ready from October to May 15th.)

First Size Roots. 10c. each (by mail, 15c.); \$1.00 per doz.; per 100, \$6.00.

Forcing Size Roots. 25c. each (not mailable); \$2.50 per doz.; 25 for \$4.25; \$15.00 per 100.

ROSEMARY HERB (Perennial)

This makes an attractive border plant, also used extensively for various medicinal purposes. 5c. per pkt., per $\frac{1}{2}$ oz. 15c., 30c. per oz. See also Rosemary Plants, page 46.

RUTA-BAGA (See also Turnips, page 45)

Private Stock. Purple top; yellow. Pkt., 5c.; per oz., 15c.; 35c. per $\frac{1}{4}$ lb.; per lb., \$1.00.

Improved. Purple top; yellow. Pkt. 5c., 10c. per oz., per $\frac{1}{4}$ lb. 25c., 75c. per lb.

SAFFRON HERB (Annual)

Used principally in making medicines and for coloring matter. 5c. per pkt., per oz. 10c.

SAGE HERB (Perennial)

Mammoth leaved variety, used in gravies, stews and also for medicinal purposes. 5c. per pkt., per $\frac{1}{2}$ oz. 10c., 15c. per oz.

SAGE PLANTS

Holt's Mammoth. Strong plants. 10c. each, per doz. \$1.00, \$7.00 per 100.

SHALLOTS (See also Onions, page 34)

A variety of French onion for flavoring. 15c. pt., qt. 30c., 4 qts. \$1.10, \$2.00 per peck.

HICKOX, GA.

Seeds arrived O. K. Thanks for your courteous handling of my order. A prospective customer I had in mind for you; bought elsewhere, his seeds arrived at the time yours did, so we are off in a race for supremacy. Michell's seeds are already, at the start, far in the lead.

H. J. McGEE.

SALSIFY (OYSTER PLANT)

One ounce of seed will sow about 50 feet of drill. 10 lbs. per acre.

Sow in early spring, in drills fifteen inches apart and one to two inches deep, when about 4 inches high, thin to three inches apart. Soil should be very deep and mellow, in order that the root may grow straight down. Store same as carrots for winter use, or they can be left in the ground until spring. This is one of the finest vegetables stewed and served with a cream dressing, while if sliced or made into cakes and fried like parsnip, they taste like a delicious oyster.

Mammoth Sandwich Island. This variety is of enormous size, twice as large as the ordinary white; pure white, very tender and delicious. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Long White. The favorite market variety, somewhat thinner than the Sandwich Island. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.



Mammoth Sandwich Island Salsify (See prices above)

All prices on seeds include postage, unless otherwise noted

SQUASH

One ounce will sow
20 to 50 hills 3 to 4 lbs.
for an acre

This vegetable is a popular one for summer and winter use, it being susceptible to cold it should not be planted until the ground is thoroughly warm. There are two varieties, the bush sort being planted in hills 4 to 5 feet apart each way; the running varieties require planting 8 to 15 feet apart in order that it may develop properly. Place 8 to 10 seeds in a hill, and when the third stage of leaves are set, thin out to about 4 plants in a hill. Some varieties, as will be noted below, are ideal for pie-making, more delicious than some of the pumpkins. Cultural Leaflet No. 124 covers squash growing fully. It is free.



Delicious Squash

SUMMER VARIETIES

Golden Custard. A flat scalloped type, like the White Bush; the skin is of a light yellow color, which is very thin, leaving plenty of meat in the centre; a bush or compact growing kind. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 lb.

Mammoth White Bush. Of round scalloped form with an ivory white skin. This variety has an abundance of meat of very fine flavor. It is one of the earliest to mature and is very prolific, bearing continually until killed by frost. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 lb.

Yellow Summer Crook Neck. Shaped like a club with a bent neck. The skin is very rough and warted, of an orange yellow color. Much preferred by the cook on account of its very dry meat when boiled. This is a variety with a running vine. Pkt., 5c.; 10c. per oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 lb.

FALL AND WINTER VARIETIES (Running Sorts)

Delicious. Well named as it has the finest flavor of any squash, of oblong shape with a deep green skin and thin rind, with a seed cavity so small that it almost meets in the centre. One of the best winter keepers; grown extensively for market; when matured it weighs from 5 to 10 lbs. and is in its prime during the early winter; one of the very best. Pkt., 5c.; oz., 10c.; 30c. per $\frac{1}{4}$ lb.; lb., \$1.00.

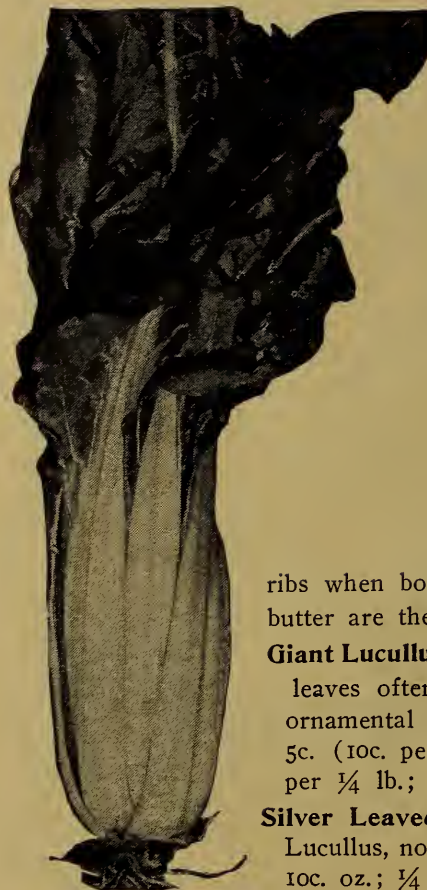
Golden Hubbard. Used extensively for pie, but served as a vegetable; it is very dry and delicious. The outside is a deep orange red, while the flesh is very tender. Pkt. 5c. (10c. per large pkt.); oz., 15c.; 40c. per $\frac{1}{4}$ lb.; lb., \$1.40.

Boston Marrow. Shaped similar to Hubbard, golden orange; fine for canning for winter use; cooked as a vegetable or in pie. Pkt., 5c.; oz., 10c.; 30c. $\frac{1}{4}$ lb.; lb., \$1.00.

Vegetable Marrow. A long greenish white variety; fine for cooking; very sweet and tender. This is the favorite squash with the English people. Pkt., 5c.; 10c. per oz.; per $\frac{1}{4}$ lb., 30c.; \$1.00 per lb.

SWISS CHARD (Spinach Beet)

A wonderful vegetable which is known but too little. From every possible standpoint it has qualities that recommend its use in every household. Readily grown from seed, when it can be used five weeks after sowing and is a continuous crop until killed by frost. The plant does not produce a beet root, but its valuable part is all above the ground; large leaves with broad ribs grow from the centre; the outer leaves only should be carefully pulled from the plant; the foliage part separated from the rib. The former when cooked is served like spinach, which it resembles in taste; the



ribs when boiled and served with melted butter are the equal of finest asparagus.

Giant Lucullus. Very tall growing; crinkly leaves often two feet long; a beautiful ornamental plant for any garden. Pkt., 5c. (10c. per large pkt.); oz., 15c.; 50c. per $\frac{1}{4}$ lb.; lb., \$1.50.

Silver Leaved. Not quite as tall as the Lucullus, nor so well crinkled. Pkt., 5c.; 10c. oz.; $\frac{1}{4}$ lb., 30c.; \$1.00 lb.

Giant Lucullus Swiss Chard

Prices of all seeds on this page in lb. lots and less include postage.

See Cultural Leaflet No. 126 for instructions on spinach growing. It's free, ask for it.

Bloomsdale Round-Seeded Savoy (Improved Strain). The hardest Savoy leaved variety; curled and crimped, thick, fleshy leaves; the best for early spring and fall sowing. Pkt., 5c.; 10c. oz.; 20c. per ¼ lb.; per lb., 60c.; \$2.50 for 5 lbs.; 10 lbs., \$4.50.

Bloomsdale (Usual Strain). Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 50c. per lb.; 5 lbs., \$2.00.

Long Season. A cross between the old reliable Bloomsdale and the Victoria. It produces tremendously large plants and leaves which are strong and robust. It will resist heat better without shooting to seed than any variety yet introduced. The leaves are somewhat curled, and are tender. Color, a beautiful dark green. Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; 60. per lb.; 5 lbs. for \$2.50.

New Zealand. This variety endures heat and drought; excellent for summer use; the leaves are small and thick. It is an enormous yielder, growing upright, one sowing can be picked from the entire summer, a very distinct variety. Pkt., 5c.; 10c. per oz.; per ¼ lb., 35c.; \$1.25 per lb.

Victoria Long Standing. This thick variety is distinguished by the exceedingly dark green color, and also for its long-standing qualities and crinkled foliage, especially valuable for summer use, resisting the heat to a remarkable degree. Pkt., 5c.; 10c. per oz.; 20c. ¼ lb.; lb., 50c.; \$2.00 for 5 lbs.; 10 lbs., \$3.75.

SORREL (French Broad Leaved)

Desirable greens for salad; resembles sour grass in flavor. Pkt., 5c.; 10c. ½ oz.; oz., 15c.; 40c. ¼ lb.; lb., \$1.25.

SWEET BASIL HERB (Annual)

A valuable herb for flavoring various dishes. Pkt., 5c.; 10c. per ½ oz.; per oz., 15c.

SUMMER SAVORY HERB (Annual)

A popular kitchen herb used in flavoring, etc. Pkt., 5c.; 10c. per ½ oz.; per oz., 20c.

Plants of Summer Savory. 10c. each; doz., \$1.00; 100, \$7.00.



Michell's Improved Strain Bloomsdale Spinach

SWEET MARJORAM HERB (Annual)

Imported Strain. Used in the kitchen for flavoring. Pkt., 5c.; 10c. per large pkt.; oz., 20c.

American Strain. This variety is a much larger type and an improvement on the above. Pkt., 10c.; 20c. per ½ oz.; per oz., 40c.

Plants of Sweet Marjoram. 10c. each; doz., \$1.00; 100, \$7.00.

MICHELL'S CRACKERJACK TOMATO

(STILL A LEADER)

The "distinctive" qualities of "Crackerjack" are numerous.

The earliest Tomato to ripen in Pennsylvania.

A continuous bearer, producing fruits right up till frost.

The most abundant producer of any tomato we know.

An absolutely smooth fruit, colored equally alike.

Never cracks, except when over-ripe and left on vine.

All fruit is of even size, and every fruit can be used.

Grows in clusters from 5 to 10 perfect tomatoes.

Fruit is of medium size and of a brilliant rich scarlet.

Fruit when cut discloses solid meat and little seed.

Its flavor is very agreeable and a favorite with everybody.

The firm flesh makes it an ideal shipper.

"Crackerjack" for the home garden.

We highly recommend this variety for forcing under glass.

Per pkt., 15c.; 25c. for 2 pkts.; ½ oz., 30c.; 60c. per oz.

Extra strong pot-grown "Crackerjack" Tomato plants (Ready in May). 8c. each; doz., 75c.; 100, \$5.00.



Michell's Crackerjack Tomato

44 MICHELL'S CHOICE TOMATO SEED (Pomme d'Amour) Liebes Apfel Pomo-d'oro

One ounce will produce 3500 plants; ¼ lb. will provide enough for an acre.

Sow in the house or hotbed about March 1st, transplant when 3 inches high, and again later to produce vigorous specimens. Set plants outdoors about May 1st in rows 3 feet apart, 18 inches in the row or in hills 4 feet apart each way. Properly grown tomato plants should be supported. Cultural Leaflet No. 129 covers tomato growing fully, ask for a free copy.



MicHELL's "Private Stock" Stone Tomato

EARLY VARIETIES

Beauty. One of the largest bright red tomatoes, solid and meaty, quite early. Pkt., 5c. and 10c.; 25c. per oz.; ¼ lb., 75c.; \$2.50 lb.

Bonny Best. One of the best and most prolific of early tomatoes. The size is not so large but it is very solid and evenly formed. Color, a beautiful bright red. Pkt., 10c.; 15c. per ½ oz.; oz., 30c.; \$1.00 per ¼ lb.

Earliana (Spark's). The most prolific early tomato ever produced. Grows in clusters; medium in size; solid and most desirable. Pkt., 10c.; 15c. ½ oz.; oz., 25c.; 85c. ¼ lb.; lb., \$3.00.

Early Jewel (Chalk's). A favorite variety with the market gardener. Color, a bright red; solid and good shipper. Pkt., 10c.; 15c. per ½ oz.; per oz., 30c.; \$1.00 per ¼ lb.; per lb., \$3.50.

June Pink. One of the recent introductions in tomatoes. In habit it is very much like Earliana, but a beautiful pink color instead of red. 10c. pkt.; per ½ oz., 15c.; 30c. per oz.; per ¼ lb., 85c.; \$3.00 per lb.

MicHELL's Crackerjack. This is one of the best early tomatoes for the home garden, its productiveness is wonderful, it is quite free from acid and of a convenient size. Color, rich red and produced in clusters. Be sure and try it if you have not already ordered. Pkt., 15c.; 25c. for 2 pkts.; ½ oz., 30c.; 60c. per oz.

LATER AND GENERAL CROP VARIETIES

Dwarf Champion. A distinct type, the plant looks like a miniature tree; very dwarf and compact; color of fruit, bright red and very solid. Pkt., 5c.; 15c. per ½ oz.; per oz., 25c.; 85c. per ¼ lb.; per lb., \$3.25.

Dwarf Stone. A dwarf compact growing plant, yielding a large crop of medium-sized very solid tomatoes. Color, bright red. The plant is very distinct and upright. Pkt., 10c.; 15c. per ½ oz.; per oz., 30c.; 80c. per ¼ lb.; per lb., \$3.00.

Dwarf Giant. A dwarf type of the true Ponderosa; very meaty, of rich purple red, gigantic size, a fine shipper. 10c. pkt.; ½ oz., 20c.; 35c. oz.; ¼ lb., \$1.25.

Golden Queen. Large yellow fruit. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; \$3.00 per lb.

Greater Baltimore. An excellent canning or market variety, very large and solid general crop, rich color and of uniform size. 10c. pkt.; ½ oz., 15c.; 30c. oz.; ¼ lb., \$1.00.

Livingston's Globe. A handsome variety, especially adapted to slicing; very solid; color a handsome red and a great producer; one of the best general crop varieties. Pkt., 10c.; 15c. ½ oz.; 25c. per oz.; per ¼ lb., 85c.; \$3.00 per lb.

Matchless. Large red fruit, general crop. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; \$2.75 per lb.

LATER AND GENERAL CROP VARIETIES—(Continued)

MicHELL's Improved Globe. One of the largest and heaviest tomatoes on our list, the shape is rather oblong so that for slicing it cuts more from a fruit than any other variety; absolutely smooth, never cracks and colors right to the stem. Pkt., 10c.; 20c. per ½ oz.; oz., 40c.; \$1.25 per ¼ lb.

Ponderosa. The largest tomato in existence; a beautiful red color; heavy producer, and of even form. Pkt., 10c.; 20c. per ½ oz.; per oz., 35c.; \$1.25 per ¼ lb.; per lb., \$4.50.

Red Rock. One of the most solid varieties, medium size and of a brilliant red color, a fine one for the home or market garden; medium early. Pkt., 10c.; 15c. per ½ oz.; oz., 30c. \$1.00 per ¼ lb.

Stone (MicHELL's Private Stock). A very careful selection of the old favorite Stone. The fruits are larger, more even, and produced in greater abundance. One of the best all-round tomatoes on the market. Pkt., 10c.; 20c. per ½ oz.; per oz., 40c.; \$1.25 per ¼ lb.; per lb., \$4.00.

Stone (Usual Strain). Pkt., 5c. and 10c.; 15c. per ½ oz.; per oz., 25c.; 75c. per ¼ lb.; per lb., \$2.75.

FORCING TOMATOES

While especially adapted for growing under glass during the winter, they succeed outdoors quite well, and have one especially valuable feature, being extremely early.

Balch's Fillbasket. Fine forcer; medium sized fruits. Original pkts., 50c. each.

Sutton's Best of All. One of the finest varieties in use in England, and the seed we offer is grown from Sutton's original stock. The fruit is medium sized, and of an intense red color, containing but few seeds, it is produced in clusters of from 3 to 6 fruits. Pkt., 10c.; 25c. ½ oz.; oz., 50c.; \$1.75 per ¼ lb.

Comet. A cluster averages 6 tomatoes of medium size of the brightest red, ripening up to the stem. One of the first to ripen and continues in bearing for a long while. Pkt., 10c.; 20c. per ½ oz.; oz., 35c.; \$1.25 per ¼ lb.

Sutton's Eclipse. A very smooth fruit, borne singly on plants which produce little foliage, a good point in a forcing tomato, vermilion red color; original packets, 50c.

SMALL FRUITED TOMATOES

These are very decorative in the garden, as well as highly desirable for preserving on account of their freedom from acid; they are tremendously prolific, continuing to bear right up to frost. They may be used raw, and make excellent table decorations.

Red Cherry. Pkt., 5c.; ½ oz., 15c.; 25c. oz.; ¼ lb., 75c.; \$2.50 per lb.

Red Peach. Of Peach form and color. Pkt., 5c.; 15c. ½ oz.; oz., 25c.; 85c. ¼ lb.

Yellow Pear or Plum. Pkt., 5c.; 15c. ½ oz.; oz., 25c.; ¼ lb., 75c.; \$2.50 per lb.

Strawberry or Husk. Pkt., 5c.; 15c. ½ oz.; oz., 25c.; ¼ lb., 85c.; \$2.75 per lb.

TOMATO PLANTS

(Ready in April)

	Doz.	100	1000
Hotbed-Grown	\$0.20	\$1.25	\$8.00
Pot-Grown .....	.50	4.00	37.50

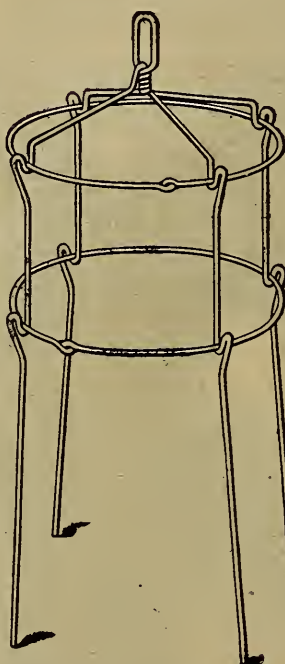
TOMATO SUPPORTS

Larger plants, better and more fruit is obtained when tomatoes are supported.

Muller's Wire (see cut). Each, 30c.; doz., \$3.25; \$23.50 per 100.

Model, Wire. Each, 20c.; doz., \$2.00; \$14.00 per 100.

Perfection, Wood. Each, 25c.; doz., \$2.75; \$22.00 per 100.



Muller's Tomato Support

TESTIMONIAL ON MICHELL'S TOMATO SEED

New Haven, Conn.

I took first prize at the New Haven Horticultural Society Exhibition on September 16 with Tomatoes from your seed, "Golden Queen and MicHELL's Private Strain Stone." All seeds and plants I have had from you have turned out very well.

(Signed) DAVID WYLLIE.

MicHELL's Pot-grown Tomato Plants produce Early Fruit

(hn)

TARRAGON

This does not produce seed, but we offer choice plants. These are hardy if given plenty of protection in winter. Do not plant them in an exposed place. Extra large plants, 25c. each (by mail, 30c.); per doz., \$2.50; \$17.50 per 100.

THYME (English Broad Leaved)

This is almost an indispensable herb; once planted it remains permanent for years. Pkt., 5c. and 10c.; 15c. per ½ oz.; per oz., 30c.

THYME PLANTS

Large clumps of the above variety for those who want immediate results. 10c. each (by mail, 15c.); per doz., \$1.00; \$6.00 per 100.

TOBACCO SEED

	Pkt.	½ Oz.	Oz.
Connecticut	\$0.10	\$0.15	\$0.25
Havana .....	.10	.20	.40
Pennsylvania .....	.10	.15	.25

Special price on larger quantities.

TURNIP AND RUTA BAGA

Herbst Rüben (Ger.) Navet (Fr.)

One ounce of seed for 100 feet drill; two lbs. per acre, broadcast

For early use sow the small sorts as soon as the ground can be worked in the spring in drills fourteen inches apart. Ruta Bagas thirty inches. As the seed is fine it should be covered but slightly, except in very dry weather. Do not sow too thickly, so the roots can develop. For fall and winter use the early kinds should be sown from the middle of July to the middle of August, and Ruta Bagas from the middle of June to the fifteenth of July.



SPECIAL NOTE on "Ruta Bagas"

"Customers frequently complain that Ruta Baga grows too long in shape, rather than in a round form. Careful inquiry has developed the fact that this is caused by sowing the seed too early.

In the locality of Philadelphia and New York the seed should not be sown until August 1st, when it will invariably develop perfectly globular formed roots. Seed sown earlier than this invariably produces the long shaped roots with long stems.



MicHELL's Private Strain Ruta Baga

RUTA BAGA

Private Stock Purple Top Yellow. This is the perfect ideal Ruta Baga. Top is purple, the bottom yellow. It brings a high price when sold in the market on account of its shape. Pkt., 5c. and 10c.; 15c. per oz.; ¼ lb., 35c.; \$1.25 per lb.; 5 lbs. for \$5.00.

Improved Purple Top Yellow. This variety is the same color as the above, except the shape is more oblong. It is very desirable for stock feeding. Pkt., 5c.; 10c. per oz.; per ¼ lb., 25c.; 75c. per lb.; 5 lbs. for \$3.00.

Private Strain Improved Purple Top White Globe Turnip

TURNIP

Aberdeen. A flat yellow variety, a good winter keeper. Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; per lb., 60c.

Cow Horn. A long white variety used for soiling and stock feeding. Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; 60c. per lb.

Early White Flat Dutch. A good variety for early spring sowing, matures quickly. Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; 30c. per ½ lb.; per lb., 60c.

Early Purple Top Flat. The most popular variety in cultivation, a large yielder, well flavored. Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; 60c. per lb.

Purple Top White Globe. A large perfect shaped sort, the skin is purple at top and white at bottom, very sweet. Pkt., 5c.; 10c. per oz.; per ¼ lb., 25c.; per lb., 75c.

Purple Top White Globe. (Private stock.) This is a careful selection of the above variety, especially adapted for private gardens. Pkt., 5c. and 10c.; 15c. per oz.; per ¼ lb., 35c.; per lb., 1.00.

Robertson's Golden Ball. A globular-shaped sort, with deep yellow flesh. Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; 30c. per ½ lb.; per lb., 60c.

Snowball. A pure white globe variety, very early; Pkt., 5c.; 10c. per oz.; per ¼ lb., 20c.; 35c. per ½ lb.; per lb., 60c.

White Milan. A handsome flat sort, grand for very early use, sweet and tender. Pkt., 5c.; 10c. per oz.; per ¼ lb., 25c.; 85c. per lb.

Yellow Globe or Amber. Shaped like the Purple Top Globe, but the color is like that of a Yellow Ruta Baga. Pkt., 5c.; 10c. per oz.; 20c. per ¼ lb.; per ½ lb., 35c.; per lb., 60c.

WORMWOOD

A medicinal herb of great value. Perfectly hardy with slight protection. Pkt., 5c. and 10c.; 15c. per ½ oz.; per oz., 25c.

46 MICHELL'S VEGETABLE AND HERB PLANTS AND ROOTS

Our stock of this class of plants and roots is of unusual value; we make a great specialty thereof, producing most of the stock at our nurseries in Andalusia, Pa.



Green Globe Artichoke

Artichokes

(Ready in April)

Green Globe (see cut). Pot grown. \$1.50 per doz.; 25 for \$2.50; \$10.00 per 100 (by express only).

Jerusalem. Sometimes called the American Artichoke, used for table and stock feeding. Cultural and cooking methods of Artichoke are fully explained in Leaflet No. 101. 15c. qt.; peck, 75c.; \$2.75 per bu.

Asparagus Roots (Ready from October 15th to May 15th)

The handling of this crop is carefully described in our leaflet on Asparagus Culture, which is mailed free or included with orders, if asked for. The two year old roots usually produce two years after planting, the three year old may be cut lightly one year after planting.

		2 Year Old Roots			3 Year Old Roots		
		100	500	1000	100	500	1000
Giant Argenteuil.	Violet	1.00	4.00	7.50	1.75	7.50	15.00
and white							
Barr's Mammoth.	Dark						
green .....		.75	3.00	6.00	1.50	6.50	12.50
Columbian Mammoth							
White.	Pure white.....	.75	3.00	6.00	1.50	6.50	12.50
Conover's Colossal.	Light						
green .....		.75	3.00	6.00	1.50	6.50	12.50
Palmetto or Eclipse.	Light						
green .....		.75	3.00	6.00	1.50	6.50	12.50

Brussels Sprouts (Ready in July)

Matchless Improved Hot Bed Grown. 25 for 20c.; 50c. per 100; per 1000, \$3.50. If wanted by mail, add 15c. per 100 for postage.

Cabbage Plants

(Ready in season according to variety beginning April 1st)

Early Sorts. From hot beds Winnigstadt, Wakefield, All Head. Ready April 15th. 40c. per 100; per 1000, \$3.50.

Early Sorts. Sturdy plants from cold frames. Ready April 1st, in Wakefield and All Head varieties only. 75c. per 100; per 1000, \$6.00.

Late Sorts. Ready July 1st in Late Flat Dutch, Danish Ball Head, Drumhead, Savoy and Red Dutch Drumhead varieties only. Per 100, 40c.; \$2.75 per 1000.

If cabbage are wanted by mail, add 15c. per 100 for postage.



Asparagus

Cauliflower Plants (Ready about April 1st)

	P. P. Wt.	Doz.	100
Snowball variety. Plants, hot beds.....	1 lb.	\$0.25	\$1.50
Snowball variety. Pot-grown plants .....		.50	4.00

Celery Plants (Ready in July)

Extra selected well grown, sturdy stock grown at our own plant establishment in the following varieties: **White Plume, Dwarf Golden Heart, Giant Pascal, Boston Market, Winter Queen.** 40c. per 100; 500 for \$1.75; \$3.50 per 1000. **Golden Self Blanching.** Grown from French seed. 50c. per 100; \$2.25 per 500; per 1000, \$4.00.

If Celery Plants are wanted by mail, add 20c. per 100 for postage.

Chamomile

Extra strong pot-plants, 10c. each; doz., \$1.00; \$6.00 per 100.

Chives

(Ready in April)

Hardy and will last for years.

Strong Plants, 10c. each; doz., \$1.00; \$7.00 per 100. Allow 5c. each for mailing if wanted by parcel post.

Egg Plants

(Ready after May 15)

These are grown in pot-grown stock only.

New York Improved and Black Beauty. 5c. each; 50c. doz.; \$4.00 per 100.

Hop Vine (Hardy)

Besides being used in culinary and medicinal ways, this makes a valuable shade plant, placed on arbors, trellis, etc.

Strong Pot-Grown Plants. 12c. each; doz., \$1.25; 100, \$8.00.

Horse Radish Roots (Ready in March)

Maliner Kren (Bohemian). Large, strong cuttings, 25c. per doz.; per 100, 75c.; \$6.00 per 1000.

Regular variety. Doz., 15c.; 50c. per 100; per 1000, \$4.00. If Horse Radish are wanted by mail, add 10c. per 100 for postage.

Lavender (Ready in April)

Used for its flowers, which when dried, are strewn among clothing to keep away moths. Pot-grown plants. 15c. each; per doz., \$1.50; \$10.00 per 100. If wanted by mail, add 5c. each for postage.

Lettuce Plants

We can supply these at all seasons in Heading Varieties; our selection. 40c. per 100; \$3.00 per 1000. If wanted by mail, add 10c. per 100 for postage.

Mint (Hardy) (Ready in April)

The plants are hardy and when once established remain for years. Pot-grown plants.

Spearmint. 10c. each; per doz., \$1.00; \$7.00 per 100.

Peppermint. 10c. each; per doz., \$1.00; \$7.00 per 100.

Parsley Plants

(Ready in April)

Double curled, pot-grown, ready for use. 50c. per doz.; per 100, \$4.00. Allow 5c. each, 25c. doz. for postage if wanted by mail.

Pepper Plants

(Ready in May)

Bull Nose and Long Red Cayenne varieties only.

Pot-Grown Plants. 50c. per doz.; per 100, \$4.00.

Hotbed Grown. 20c. per doz.; per 100, \$1.25.

Pennyroyal (Ready in April)

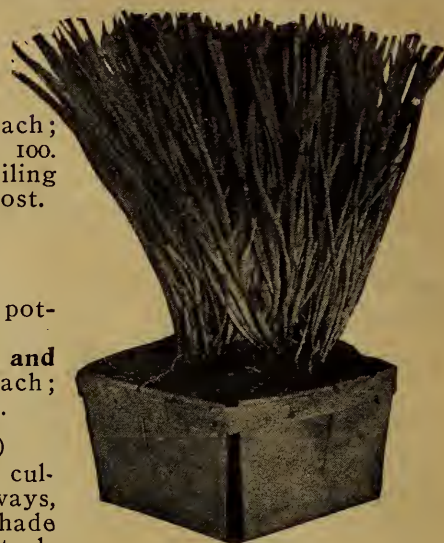
A medicinal herb, used for various purposes.

Pot-Grown Plants. 10c. each; \$1.00 doz.; per 100, \$7.00.

Rosemary

(Perennial) (Ready in April)

Used extensively for various medicinal purposes. Pot-grown plants. 15c. each; doz., \$1.50; \$10.00 per 100.



A Clump of Chives



POT-GROWN VEGETABLE PLANTS do not carry well by parcel post. We recommend express shipment (hn)

Michell's Vegetable and Herb Plants and Roots 47



Rhubarb Roots (Ready from October to May 15th)

Victoria First Size Roots. 10c. each; \$1.00 per doz.; per 100, \$6.00. Allow 5c. each or 25c. doz. for postage, if wanted by mail.

Victoria Extra Large Clumps for Planting out or Suitable for Forcing. 25c. each (not mailable); \$2.50 per doz.; 25 for \$4.25; \$15.00 per 100.

Sage (Hardy) (Ready in April)

Holt's Mammoth. Large leaved variety, used in gravies, stews and also for medicinal purposes. Pot-grown plants. 10c. each; per doz., \$1.00; \$7.00 per 100.

Savory (Ready in April)

A popular herb, used in flavoring, etc. Pot-grown plants. Summer Variety (Annual). 10c. each; doz., \$1.00; 100, \$7.00. Winter Savory (Hardy). 25c. each; doz., \$2.50; 100, \$15.00.

Sweet Marjoram (Annual) (Ready in April)

American Strain. This variety is a much larger type and an improvement on the imported. Pot-grown plants. 10c. each; per doz., \$1.00; \$7.00 per 100.

Sweet Potato Plants (Ready in May)

Yellow and Red Nansemond. 40c. per 100; 1000, \$2.50; (5000 lots, \$10.00). If wanted by mail, allow 15c. per 100 for postage.

TESTIMONIAL

Rancocas, N. J.

Sweet Potato Plants arrived in fine condition and I want to thank you also for the kind attention.

MRS. G. E. NYE.

Tansy (Hardy)

For medicinal purposes this herb is of great value. 10c. each; doz., \$1.00; \$7.00 per 100.

Tarragon (Hardy) (Ready in April)

These are hardy if given plenty of protection in winter. Do not plant them in an exposed place. Extra large pot-grown plants. 25c. each; per doz., \$2.50; \$17.50 per 100.

Thyme (Hardy) (Ready in April)

English Broad Leaved. This is almost an indispensable herb; once planted it remains permanent for years. Pot-grown plants. 10c. each; doz., \$1.00; \$7.00 per 100.

A FEW UNSOLICITED TESTIMONIALS ON THE QUALITY OF MICHELL'S PLANTS

Camden, N. J.

Your shipment arrived in O. K. condition. I was especially pleased with the plants.

C. BRACH.

Atlantic City, N. J.

The plants arrived since writing you and were in splendid condition.

MRS. GEO. W. LOCKWOOD.

Michell's Vegetable Cultural Leaflets

For the special benefit of the amateur (also the experienced gardener, if he wants them) we have prepared a series of instructions how to successfully grow some of the most important vegetables; they cover, in some instances, the proper cooking method and winter storage. THESE LEAFLETS ARE FREE and can be asked for at any time, whether accompanied by an order or otherwise. Ask for them by number, it saves time.

No. of Leaflet	No. of Leaflet
101 Artichoke.	117 Mushrooms.
102 Asparagus.	118 Onions.
103 Garden Beans.	119 Peanuts.
104 Beets (Table and Cattle).	120 Parsley and Parsnips.
105 Brussels Sprouts.	121 Garden Peas.
106 Cabbage.	122 Peppers.
107 Carrot.	123 Potatoes.
108 Cauliflower.	124 Pumpkin and Squash.
109 Celery.	125 Radish.
110 Sugar Corn.	126 Spinach.
111 Cucumber.	127 Sweet Potatoes.
112 Egg Plant.	128 Swiss Chard.
113 Herbs (Kitchen Garden).	129 Tomatoes.
114 Kohl Rabi.	130 Turnip and Ruta Baga.
115 Lettuce.	131 French Winter Salads.
116 Melons.	



Tomato Plants (Ready after April 15th)

Pot-grown plants in the following varieties only: Earliana, Stone, Dwarf Stone, Ponderosa. 5c. each; doz., 50c.; \$4.00 per 100.

Michell's Cracker Jack. Extra early. 8c. each; doz., 75c.; \$5.00 per 100.

Hot bed plants in the following varieties only: Stone, Earliana, Ponderosa and Dwarf Champion. 20c. per doz.; per 100, \$1.25; \$8.00 per 1000. If wanted by mail, allow 5c. per doz. for mailing Hot Bed Grown Tomatoes; Pot-grown tomatoes cannot be mailed satisfactorily.

POT-GROWN VEGETABLE PLANTS do not carry well by parcel post. We recommend express shipment

(hn)

ALPHANO HUMUS

THE GREAT NATURAL
FERTILIZER and SOIL BUILDER



A terrace lawn treated with Alphano Humus. It produces a thick growth that makes the sod stick. The terrace was enriched with ALPHANO; the rest with stable manure. Note the marked contrast.

PREPARED ALPHANO HUMUS "THE IDEAL SOIL ENRICHER"

Has been on the market—in successful use for **ten years**.
It is prepared from a rich deposit of decayed vegetable and animal matter. In its course of preparation for use as a soil builder and enricher, it is composted for a long period, and supplied with all the legume and other beneficial soil bacteria. 80% of the moisture is driven out, and a liberal quantity of rich, concentrated plant foods and bacterial nutriment of highest fertilizing value are added. It comes to you, finely pulverized, odorless, and entirely free from weed seeds.
It is rich in ammonia, phosphoric acid, potash and lime, and is lively with the various bacteria so essential to soil fertility. For lawns it is applied as a top dressing from ½ to 1 inch in depth, which should be then worked in.
If grass seed is to be sown, then is the time to apply it. On golf links it is used in a similar way.
For Flower and Vegetable garden, apply at rate of ½ to 2 inches deep, and fork it well in the soil, or apply it in trenches, the same as you would well-rotted manure.



For vegetables, ALPHANO is ideal. This celery was ready to cut on June 26th. Its quick growth induced by the abundant Alphano food, produced solid stalks of delicious flavor and crackly crispness.

For pot plants, mix about ⅓ of the Alphano with ⅔ of regular potting soil.
A ton of Prepared Alphano Humus is equal to nearly 2 cubic yards. For top dressing lawns an application of 100 lbs. every 800 sq. feet will be effective. For distribution in large quantities, say ½ inch thick, 30 tons is required per acre; if 1 inch thick application is desired, 60 tons per acre; if 2 inches thick, 120 tons per acre.
We caution you to beware of the many so-called "Humus" fertilizers recently put on the market; offered under various names, at prices closely approximating the cost of the original "Prepared Alphano Humus," but which are simply swamp muck, fresh from its watery bed and of no more use than so much saw-dust.

NATURAL HUMUS

You will get your money's worth in our Natural Humus, which is rich soil Humus, sun dried, disintegrated and composted, but with no additional treatment. While this may answer for some purposes, we wish to impress upon you, that Prepared Alphano Humus is worth much more than the difference in price, as it is a **complete organic fertilizer and soil builder**.



Glimpse of a Fair Way and Putting Green on the Pine Valley Golf Course is shown here on the right. The soil here is white sea sand. The splendid sod was produced and is kept in finest shape by the use of Alphano as a soil mixture and a top dressing.
It is used extensively by 13 out of the 16 golf clubs in and around Philadelphia.

PRICES ON HUMUS F. O. B. PHILADELPHIA								PRICES ON HUMUS F. O. B. FACTORY							
	5 lbs.	25 lbs.	50 lbs.	100 lbs.	500 lbs.	1000 lbs.	Ton			100 lbs.	500 lbs.	1000 lbs.	Ton	Carload in Bags Per Ton	Carload in Bulk Per Ton
Prepared Alphano	\$0.25	\$0.65	\$1.00	\$1.25	\$6.00	\$10.00	\$16.50	Prepared Alphano		\$1.00	\$5.00	\$7.00	\$13.00	\$10.00	\$8.00
Natural				1.10	5.00	8.50	14.00	Natural		.75	3.50	5.00	8.00	7.00	5.00
Note the smallest car of Humus in bags is 20 tons, the smallest car in bulk is 30 tons.															
Note.—Not less than 100 lbs. of Natural Humus can be supplied.															

MICHELL'S GRASS SEEDS

FOR ALL PURPOSES

MICHELL'S
PERMANENT PASTURE
GRASS SEED

85¢ PER PECK \$3.00 PER BUSHEL (15 LBS.)

MICHELL'S EVERGREEN
LAWN SEED

\$1.00 PER PECK
\$4.00 PER BUSHEL (20 LBS.)

MICHELL'S SPECIAL FORMULAS
AND SEPARATE VARIETIES OF
GRASSES FOR GOLF COURSES
AND PUTTING GREENS

HENRY F. MICHELL CO.
GRASS SEED SPECIALISTS
518 MARKET ST. PHILA.

Michell's Recleaned Grass Seeds

The House of Michell has long been considered headquarters in Philadelphia for grass seeds of all kinds, obtaining its supplies in the most desirable parts of the world for their best development by contracting direct with growers. Our Lawn Grass Mixtures are combinations best adapted for the different purposes for which they are recommended. We continually receive from our customers the most enthusiastic reports of their experience with our grass seeds.

MIXTURES FOR LAWNS

Michell's Top Notch. 25 lbs. per bushel. The finest Lawn Mixture in existence. It is not put up or sold in less quantity than one peck. Prices: \$2.00 per peck; per $\frac{1}{2}$ bushel, \$3.75; \$7.00 per bushel of 25 lbs.; 2 bushels, \$13.50; \$32.50 per 5 bushels; 100-lb. lots and over, 26c. lb.

Michell's Green Velvet. 20 lbs. per bushel. Produces a perfect lawn in 4 to 5 weeks' time. Sow 4 bushels per acre. Prices: 1 pint, 20c.; 30c. per qt.; 4 qts., 85c.; \$1.25 per peck; per bushel, \$5.00; \$24.00 per 5 bushels; 100-lb. lots and over, 24c. lb.

Michell's Evergreen. 20 lbs. per bushel. The standard Lawn Mixture in the United States. Sow 4 bushels per acre. Prices: Pint, 15c.; 25c. per qt.; 4 qts., 65c.; \$1.00 per peck; bushel (20 lbs.), \$4.00; \$19.50 per 5 bushels; 100-lb. lots and over, 19 $\frac{1}{2}$ c. lb.

Michell's Shaded Lawn Grass. Will produce a perfect sward in the most densely shaded place. Prices: 1 pint, 15c.; 25c. per qt.; 2 qts., 40c.; 75c. per 4 qts.; peck, \$1.25; \$5.00 per bushel (20 lbs.); 5 bushels, \$24.00; 100-lb. lots and over, 24c. lb.

Fairmount Park Lawn Seed. Sow 4 bushels to the acre. Prices: Per qt., 20c.; 35c. for 2 qts.; 4 qts., 60c.; 85c. per peck; per bushel of 15 lbs., \$3.00; \$14.50 for 5 bushels; 100 lbs. and over, 19c. lb.

Michell's Seashore Formula Grass Seed. Contains such grasses as thrive in salt air regions. 4 bushels per acre. Prices: Per qt., 25c.; 40c. for 2 qts.; 4 qts., 75c.; \$1.25 per peck; per bushel of 20 lbs., \$5.00; 5 bushels for \$24.00; 100 lbs. and over, 24c. lb.

Michell's Terrace or Embankment Grass Seed. Sow 4 bushels per acre. Prices: Per qt., 25c.; 40c. for 2 qts.; 4 qts., 75c.; \$1.25 per peck; per bushel of 20 lbs., \$5.00; 5 bushels, \$24.00; 100 lbs. and over, 24c. lb.

Southern States Lawn Grass Seed. Made up especially for dry, hot localities, especially suited to the Southern States. 15 lbs. per bushel. Prices: 20c. per qt.; 2 qts., 35c.; 60c. for 4 qts.; peck, \$1.00; \$3.50 per bushel; 5 bushels, \$16.25; 100 lbs. and over, 21c. lb.

Special Sod Grass Seed. Producing a heavy sod in a short time. 15 lbs. per bushel. Prices: 25c. per qt.; 2 qts., 40c.; 75c. for 4 qts.; peck, \$1.00; \$4.00 per bushel; 5 bushels, \$18.75; 100 lbs. and over, 25c. lb.

Woodland's Grass Mixture. A mixture of hardy grasses that gives splendid satisfaction in thickly wooded locations (Norway Maples and Pine Trees excepted). \$1.00 per peck (5 lbs.); per bushel of 20 lbs., \$4.00; \$19.50 for 5 bushels; 100 lbs. and over, at 19 $\frac{1}{2}$ c. lb.

MIXTURES FOR PLEASURE GROUNDS

Michell's Fair Greens (Golf Course) Mixture

Composed of short-growing, deep-rooted varieties, resists plenty of wear. It retains its color well during the severest droughts. Golf courses to retain their permanency should receive additional sowings during the season. Sow 6 bushels per acre.

Prices: Qt., 25c.; 2 qts., 45c.; 4 qts., 75c.; 1 peck, \$1.25; 1 bushel (20 lbs.), \$4.50; 5 bushels, \$21.25; 100-lbs. lots and over, 21 $\frac{1}{4}$ c. lb.

Michell's Putting Greens Mixture

While many greens keepers prefer to make their own mixtures for this purpose, there are some who rely on the ability and experience of the seedsman. Our formula for this has been reached after many extensive tests. It is a quick-growing mixture of short-growing

MIXTURES FOR PLEASURE GROUNDS—Continued

Michell's Putting Greens Mixture—Continued

fine-bladed grasses, over which the ball can roll without resistance. In sowing Putting Greens it is wise economy to be very liberal with the seed, as these places are subjected to hard use. We do not recommend less than 1 bushel of 20 lbs. (and more is better) to a green 75 feet square.

Prices: 1 qt., 30c.; 4 qts., \$1.00; 1 peck, \$1.75; 1 bushel (25 lbs.), \$7.00; 5 bushels, \$32.50; 100-lb. lots and over, 26c. lb.

Teeing Grounds Mixture. 20 lbs. per bushel. Used on golf course tees or in places where a tough resisting turf is wanted. 25c. qt.; 4 qts., 65c.; \$1.00 per peck (5 lbs.); bushel (20 lbs.), \$4.00.

Tennis Court Grass Seed. Grass courts are becoming very popular again and we are pleased to recommend our formula to any one wanting seed that will produce a first-class tennis court. Qt. 25c. 45c. for two qts.; 4 qts. 75c.; \$1.25 per pk; 1 bushel (20 lbs.), \$4.50; 5 bushels, \$21.25; 100 lb., lots and over, 21 $\frac{1}{4}$ c. lb.

MISCELLANEOUS MIXTURES

Michell's Permanent Pasture Grass Seed. In the past few years ideas of what was the best way to establish a permanent grazing sod have undergone many changes. The old prevalent method of sowing timothy and clover has been found not only costly but too short lived to answer the purpose. The old custom has given way to the new, which is the sowing of a mixture of permanent grasses. Michell's Permanent Pasture Grass Seed is composed of about 10 of the best growing and most nutritious grasses and clovers for stock feeding or grazing. One sowing will last many years, although we advise additional sowings each year, just previous to which a light harrowing is recommended to give the grass seed a quick hold. Sow 3 to 4 bushels per acre on new lands or 2 bushels on established pastures (15 lbs. per bushel). Prices: Per qt., 20c.; (P. P. Wt., $\frac{1}{2}$ lb.); 4 qts., 50c. (P. P. Wt., 2 lbs.); peck, 85c. (3 $\frac{3}{4}$ lbs.); bushel (15 lbs.), \$3.00; 5 bushels, \$13.75; 100-lb. lots, 18c. lb.; 200-lb. lots and over, 17c. lb.

Michell's Permanent Hayfield Grass Seed. While timothy is still extensively sown for this purpose, our mixture is gradually being adopted by the progressive farmer. Its main advantages are that certain grasses in the mixture will grow better in varying conditions of soil, thus giving a full crop of hay on land that otherwise might produce but a half crop of timothy and clover. Our formula is the outcome of thorough trials in every kind of soil. Sow 3 to 4 bushels per acre on new lands, or 2 bushels on established fields (15 lbs. per bushel). Prices: Per qt., 20c. (P. P. Wt., $\frac{1}{2}$ lb.); 4 qts., 50c. (P. P. Wt., 2 lbs.); peck (3 $\frac{3}{4}$ lbs.), 85c.; bushel (15 lbs.), \$3.25; 5 bushels, \$14.00; 100-lb. lots, 18c. lb.; 200-lb. lots and over, 17c. lb.

MICHELL'S POULTRY YARD GRASS SEED

Chickens love grass and should be placed where they can get it as much as possible. Our formula germinates very quickly and makes a sod that grows luxuriantly. We put plenty of clover seed in this mixture, as it is very nutritious and the fowls relish it. 20c per qt.; 2 qts., 35c.; 60c. for 4 qts.; per peck, 85c.; \$3.00 per bushel.

White Clover. Choicest recleaned for sowing on lawns, pastures, etc. Sow 10 to 12 lbs. per acre (60 lbs. per bushel). Price varies continually; ask for quotations.

Call, Phone or Write for FREE Booklet, "The Lawn"

MICHELL'S SEED HOUSE

518 MARKET ST.
PHILADELPHIA, PA.

Expert Information on Grass given free—either in Person or by Letter

APRIL and May
are ideal months for
SOWING GRASS SEEDS



Grounds of the new Onic Homes, Elizabethtown, Pa. (showing Grand Lodge Hall), sown exclusively with Michell's Grass Seeds. The Committee in charge the installation of the buildings and the arrangement of the grounds, after exhaustive inquiry and report on purity and germination tests of Grass Seeds, awarded us the entire contract for supplying Grass Seeds to sow their immense tract of lawn.

MICHELL'S LAWN GRASS SEEDS

Possibly no one in the United States specializes more in grass seeds for lawns, pleasure grounds, golf courses, putting greens, pasture and hay fields than we. Our purchases in this commodity direct from the growers at home and Europe amount to many thousands of pounds annually. Our grass seeds are rigidly tested for purity and germination at the growing point, in the laboratories of the United States Department of Agriculture and by ourselves, and will be found of highest average. We make special formulas to suit various soil, climatic and local conditions. Our grass mixtures as sold have been based on many tests and on years of careful study, they are properly blended and will give splendid satisfaction.

MICHELL'S "TOP NOTCH" LAWN GRASS SEED MIXTURE

This mixture can just be called the top notch of quality, and the results obtained from sowing it are so satisfactory that the price, which is slightly higher than our other formulas, is soon forgotten. It is a perfectly blended combination of quick growing, very compact fine bladed grasses that will produce a perfect lasting turf in a few weeks, absolutely not a coarse bladed grass in it. A customer only recently told us of a visit to his estate by an expert from the United States Department of Agriculture who made the statement that his lawn, which was produced from Michell's Top Notch Grass Seed Mixture, was the most perfect he had ever seen. Not a sign of a weed and of wonderful uniformity and a beautiful deep green color.

At any price it would hardly be possible to get together a more perfect blend of thoroughly cleaned grasses than this mixture. From experiments made it seems to do unusually well under most every condition of soil, weather and climate, retaining at all times its brilliant color, and as we had frequently been asked on orders to send a lawn mixture of quality "par excellence" regardless of price, we finally decided that there was room for still greater improvement in lawns than our already high grade mixtures of grasses would produce.

Top Notch weighs **2 lbs. per bushel** and we are safe in saying that it can hardly be produced elsewhere at the price we quote it. Our grass seed sales amounting to more than half million (500,000) lbs. per year, we are able to get the choice of the Grass Seed Market.

We recommend sowing this mixture at the rate of about $3\frac{1}{2}$ to 4 bu., per acre to establish new lawns. It is not put up or sold in quantities of less than a peck. Price, \$2.00 per peck ($6\frac{1}{4}$ lbs.); per $\frac{1}{2}$ bush., \$3.75; \$7.00 per bush. (of 25 lbs.); 2 bush., \$13.50; \$32.50 per bush.; 100 lb. lots and over, 26c. lb.

TESTIMONIAL

Narberth, Pa.

Michell's Top Notch Grass Seed Mixture has produced for me a most wonderful lawn. I would be glad if you could come out and see it. In my judgment it would be impossible to make a better lawn. I am delighted.

J. L. PORTER,
Supt. to Percival Roberts, Jr., Esq.

TESTIMONIAL

Spring Lake, N. J.

The "Top Notch" Grass seed which Mr. Maloney procured from your house the past spring was sown on a terrace only a short distance from the ocean. It is a sight to behold and the talk of Spring Lake. We are very much pleased.

THOS. BRENNAN,
Head Gardener to Martin Maloney, Esq.

If Grass Seed is wanted by parcel post, allow for mailing when remitting

(hn)



**MICHELL'S SHADED LAWN
GRASS SEED**
25¢ per qt., 4 qts. 75¢, \$1.25 per peck
per bu. 20 lbs. \$5.00.

MICHELL'S SHADED LAWN GRASS SEED

Shaded Locations produced by overhanging large trees, shrubbery, buildings, etc., have often been found difficult to keep in grass. We have made a special study of such conditions and after extensive experimenting have obtained a mixture of grasses that will produce perfect swards in the most densely shaded places. It must be borne in mind that much shade creates sour soil and to guard against this apply air-slaked lime (or land plaster where the former is not available) at the rate of 1 bushel to each 1000 square feet. Lime should be applied about every three years only, while land plaster may be applied periodically during the summer. Frequent fertilizer applications, such as bone meal or sheep manure, are a great help in establishing a thick, healthy growth of grass in shaded places. Sow seed at the same rate as recommended for Green Velvet Grass on opposite page. This mixture weighs 20 lbs. per bushel and will prove to be a remarkable success. 1 pt., 15c., P. P. Weight, ½ lb.; 1 qt., 25c., P. P. Weight, 1 lb.; 2 qts., 40c., P. P. Weight, 2 lbs.; 4 qts., 75c., P. P. Weight, 3 lbs.; peck (5 lbs.), \$1.25; bush. (20 lbs.), \$5.00; 5 bush., \$24.00; 100-lb. lots and over, 24c. lb.

MICHELL'S WOODLANDS GRASS MIXTURE

At the instance of various customers on several occasions, it had been suggested that we list a grass formula for sowing in woodlands. After several tests, carefully followed up, we have arrived at a mixture of hardy grass, that have given splendid satisfaction. It is especially adapted for thickly wooded locations (Norway Maples and Pine Trees excepted). In 6 to 8 weeks in normal weather conditions it will produce growth ready for the lawn mower. Persons desiring grass mixture, that will do well in conditions such as we have described, will get splendid satisfaction from Michell's Woodlands Formula. On new ground sow at the rate of 4 bushels per acre; for renovating old land, 2½ bushel per acre. \$1.00 per peck (5 lbs.); per bushel of 20 lbs., \$4.00; \$19.50 for 5 bushels; 100 lbs. and over at 19½c. per lb.

MICHELL'S EVERGREEN LAWN GRASS SEED

Where soil conditions and weather are ideal this mixture will in most cases produce a green sward in three to four weeks. It is composed of the finest native and foreign short growing and fine bladed lawn grasses and will form a turf which can only be approached for quality by a covering of real velvet. The quantity required to sow a given space is the same as that recommended for Michell's Green Velvet on page 51. It weighs 20 lbs. per bushel and every kernel is full of vitality. Prices: Pt., 15c., P. P. Weight, ½ lb.; qt., 25c., P. P. Weight, 1 lb.; 4 qts., 65c., P. P. Weight, 3 lbs.; peck (5 lbs.), \$1.00; bush. (20 lbs.), \$4.00; 5 bush., \$19.50; 100-lb. lots and over, 19½c. lb.

MICHELL'S SEASHORE LAWN GRASS SEED (See opposite page)

The problem of establishing a good lawn at the Seashore frequently causes concern. If 3 or 4 inches of top soil is spread over the surface, and well firmed, an application of Michell's Special Formula Seashore Lawn Mixture will produce a good lawn in 6 to 8 weeks. An occasional application of pure Sheep Manure during the spring, summer and fall months will increase the strength and color of the grass. Our Formula has been thoroughly tested out in various localities, especially at the Atlantic seaboard resorts, and has given splendid satisfaction. If the soil is exceptionally poor, and it is not possible to apply a layer of topsoil, white Clover will help to make the sod thick and also protect the grass. Sow 4 bushels per acre, in making new lawns, or 2½ bushels per acre, in renovating old lawns. Per qt., 25c., P. P. Weight, 1 lb.; 40c. for 2 qts., P. P. Weight, 2 lbs.; 4 qts., 75c., P. P. Weight, 3 lbs.; \$1.25 per peck; per bushel, of 20 lbs., \$5.00; \$24.00 per 5 bushels; 100 lbs. and over, 24c. per lb.



MICHELL'S SEASHORE LAWN GRASS SEED

View of Hotel Cape May, Cape May, N. J., showing lawn seeded with Michell's Seashore Lawn Grass Seed, offered on page 50. This lawn is within one hundred feet of the Atlantic Ocean, and is one of the many remarkable pieces of turf that have been produced with our lawn grass seed.

MICHELL'S GREEN VELVET LAWN GRASS SEED

This mixture has stood the test of every clime and region in the United States. It is the result of many years of untiring study, labor and experimenting, coupled with the endeavor to give the man with a lawn a grass seed mixture which will produce a perfect turf. It is composed of close growing, fine leaved hardy grasses which will stand wear and tear, and outlive the severest winter, retaining at all times its lustrous green color.

Michell's Green Velvet Grass Seed weighs 20 lbs. per bushel. This fact alone is proof of its purity.

Quantity to sow. You cannot sow too much, the more the better, it means a quicker, more satisfactory and lasting result. We recommend, on new ground, to sow as follows:

1 qt. on 100 sq. feet (10 x 10); 4 qts. on 600 sq. feet (20 x 30); 1 peck on 1,500 sq. feet (30 x 50); 1 bushel on 7,000 sq. feet (70 x 100); 5 to 6 bushels per acre for best effects.

Prices: 1 pt., 20c. (P. P. Wt., 1/2 lb.); 1 qt., 30c. (P. P. Wt., 1 lb.); 4 qts., 85c. (P. P. Wt., 3 lbs.); 1 peck, \$1.25 (P. P. Wt. 5 lbs.); 1 bu. (20 lbs.), \$5.00; 5 bu., \$24.00; 100-lb. lots and over, 24c. lb.

SOME PROMINENT PLACES WHERE MICHELL'S GRASS SEEDS ARE SOWN

The remarkably *Fine Lawns* seen at the Philadelphia National Export Exposition; the Pan-American Exposition, Buffalo; The Jamestown Exposition, Va.; The Lewis-Clarke Exposition, Portland, Ore., were seeded with **Michell's Green Velvet Grass Seed**. For years it has been extensively sown in the Public Parks and Squares of Philadelphia (including Fairmount Park), the Parks of Wilkes-Barre, Reading, Harrisburg, Penna., on the Executive Mansion Grounds, Washington, D. C., and on thousands of Country Estates.

WHITE CLOVER SUPPLY IS VERY SHORT

Choicest re-cleaned for sowing on lawns, pastures, etc. Sow 10 to 12 lbs. per acre (60 lbs. per bu.). 1/4 lb., 20c.; 65c. lb.; 5 lbs., \$3.15; \$6.00 for 10 lbs.; bu. (60 lbs.), \$34.25; \$55.00 per 100 lbs.

A Few Unsolicited Testimonials on Michell's Lawn Grass Seeds from various parts of the United States

Michell's Green Velvet Lawn Seed procured last year did all it was recommended to do; as a result the lawn around our Pumping Station is the admiration of all who see it. Our soil is light and sandy, but "Green Velvet" did the work.

W. J. DAVIDSON,

Bound Brook, N. J.

The Green Velvet Lawn Grass Seed purchased from you two years ago has given me fine results. It comes up to every claim you made for it in your advertisements.

W. F. MELTAR.

Just a few words in praise of your Green Velvet lawn grass mixture, with which I have had remarkable success here under the most trying condition of both soil and climate. It germinates quickly and evenly and produces fine results the first year.

H. A. SAFFORD, Chief Gardener,

National Home, D. V. S., Maine.

We've had splendid results from Michell's Green Velvet Grass Seed. Every one who sees it says we have 25 acres of the best lawn in Ohio.

HERBERT MORGAN,

Gardener at Anna Dean Farm, Estate of Ohio C. Barber, Esq.

If Grass Seed is wanted by parcel post, allow for mailing when remitting.

(hn)



The above illustration represents an active scene on the course of the Merion Cricket Club, Haverford, Pa. Their grounds and putting greens are pronounced by everyone who has seen them to be perfect. Much grass on this course was produced from Michell's Seeds; and it has been the means of bringing us many customers. A great part of the course was made by that well-known greens builder, Fred. G. Pickering, who constructed Wollaston, Woodland and the Belmont courses in Massachusetts, Lake Placid, N. Y.; Atlanta, Ga., and numerous others. However, that golf expert, A. H. Findlay, says, that the Merion course, Pickering's latest creation, is one of the prettiest golf courses in America. (The seed, of course, being responsible for a great deal of this.)

MICHELL'S FAIR GREENS (Golf Course) MIXTURE

The formula for this mixture was reached after a lifetime experience of the late P. F. Foy, at the time Superintendent of the Philadelphia Country Club, Bala, Pa., and we have improved it from time to time. These grounds were conceded to be and still are among the finest golfing turf in the United States; Michell's Grass Seeds have been sown there annually for many years. The mixture is composed of short-growing, deep-rooted varieties that resist plenty of wear. It retains its color well during the severest droughts. Golf courses to retain their permanency should receive additional sowings during the season to replace any weak or wornout spots. Sow 6 bushels per acre.

Prices: Qt., 25c. (1 lb. P. P. Wt.); 2 qts., 45c. (2 lbs. P. P. Wt.), 4 qts., 75c. (P. P. Wt., 3 lbs.); 1 peck, \$1.25 (P. P. Wt., 5 lbs.); 1 bu. (20 lbs.), \$4.50; 5 bu., \$21.25; 100-lb. lots and over, 21¼c. per lb.

MICHELL'S TENNIS COURT GRASS SEED MIXTURE

Grass courts are again becoming very popular. Qt., 25c.; 45c. for 2 qts.; 4 qts., 75c.; \$1.25 per peck; bu. (20 lbs.), \$4.50; \$21.25 for 5 bu.; 100-lb. lots and over, 21¼c. lb.

A FEW GOLF COURSES THAT ARE SOWN WITH MICHELL'S GRASS SEEDS

Altwood Country Club, N. J.	Fountain Springs Golf Course, Pa.
Aronimink Golf Club, Pa.	
Belfield Country Club, Pa.	Germantown Cricket Club, Pa.
Bon Air Club of Phila.	Huntingdon Valley Country Club, Pa.
Bucks Co. Country Club, Pa.	
Cape May Golf Club, N. J.	Lansdowne Country Club, Pa.
Country Club of Bristol, Tenn.	Mayfield Country Club.
Country Club of Cleveland, O.	Mahopac Golf Club, N. Y.
Des Moines Country Club, Ia.	Merion Cricket Club, Pa.
Euclid Club, Ohio.	

And many others, including numerous private golf courses.

A FEW TESTIMONIALS ON MICHELL'S GRASS SEEDS FOR GOLF COURSES

Marietta, Ohio.

The grass produced from your seed is coming along very nicely, we are entirely satisfied with our purchase and hope to send you some additional business.

MARIETTA TOWN AND COUNTRY CLUB.

Joliet, Ill.

Last year we purchased from you some Putting Greens Grass Seed which gave us very good results. Please ship at once the quantity named below.

JOLIET COUNTRY CLUB.

MICHELL'S PUTTING GREENS MIXTURE

While many greens keepers prefer to make their own mixtures for this purpose, there are some who rely on the ability and experience of the seedsman. Our formula for this has been reached after many extensive tests, and those who desire to sow it will not be disappointed in the results they get from it. It is a quick-growing mixture of short, thin-bladed grasses, over which the ball can roll without resistance. In sowing Putting Greens it is wise economy to be very liberal with the seed, as these places are subjected to continuous hard use. We do not recommend less than 1 bushel of 25 lbs. to a green 75 foot square.

Prices: 1 qt., 30c. (P. P. Wt., 1 lb.); 4 qts., \$1.00 (P. P. Wt., 4 lbs.); 1 peck, \$1.75 (P. P. Wt., 6¼ lbs.); 1 bu. (25 lbs.), \$7.00; 5 bu., \$32.50; 100-lb. lots and over, 26c. per lb.

MICHELL'S TEEING GROUNDS GRASS MIXTURE

Used on golf course tees or in other places where a tough resisting turf is wanted. 25c. qt.; 4 qts., 65c.; \$1.00 per peck; 1 bu. (20 lbs.), \$4.00.

Old York Rd. Country Club, Pa.
Ottumwa Country Club, Ia.
Philadelphia Country Club, Pa.
Philadelphia Cricket Club, Pa.
Philmont Country Club, Pa.
Pine Valley Golf Club.
Pittsburgh Field Club, Pa.
Plymouth Country Club, Pa.
Sea View Golf Club.

Sioux City Golf Club, Ia.
St. Davids Golf Club, Pa.
Sunnybrook Golf Club, Pa.
Westbrook Country Club, Ohio.
West Chester Golf and Country Club, Pa.
White Marsh Valley Country Club, Pa.
Woodbury Country Club, N. J.

MICHELL'S RECLEANED GRASS SEEDS for LAWNS, Etc. ⁵³



A view of Valley Forge Park, at Valley Forge, Pa., seeded with Michell's Recleaned Grass Seed. Our Woodlands Grass Seed Mixture, offered on page 50, is particularly effective in locations like this.

Fairmount Park Lawn Seed. A very fine mixture indeed, meeting the requirements of those desiring a moderately priced grass seed. Sow 4 bushels to the acre on new lawns or 2½ bushels in renovating old lawns. Prices: Per qt., 20c. (P. P. Wt., ½ lb.); 35c. for 2 qts. (P. P. Wt., 2 lbs.); 4 qts., 60c. (P. P. Wt., 3 lbs.); 85c. per pk. (3¾ lbs.); per bu. of 15 lbs., \$3.00; \$14.50 for 5 bu. 100-lb. lots and over, 19c. lb.

Michell's Poultry Yard Grass Seed Formula. Chickens love grass and should be placed on range, where they can get it as much as possible. Our formula germinates very quickly and makes a sod that grows luxuriantly. We put plenty of clover seed in this mixture, as it is very nutritious and the fowls relish it. 20c. per qt. (P. P. Wt., ¾ lb.); 35c. for 2 qts. (P. P. Wt., 2 lbs.); 60c. for 4 qts. (P. P. Wt., 3 lbs.); 85c. per pk. (3¾ lbs.); bu. (15 lbs.), \$3.00.

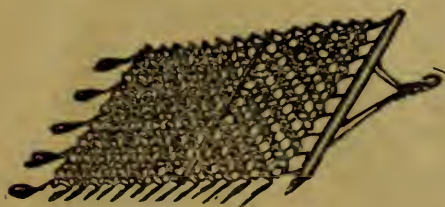
Michell's Terrace or Embankment Grass Seed. Sow 4 bushels per acre. Per qt., 25c. (P. P. Wt., 1 lb.); 40c. for 2 qts. (P. P. Wt., 2 lbs.); 4 qts., 75c. (P. P. Wt., 3 lbs.); \$1.25 per pk. (5 lbs.); per bush of 20 lbs., \$5.00; 5 bu. \$24.00; 100-lb. lots and over, 24c. lb.

Southern States Lawn Grass Seed. Made up especially for dry hot localities, especially suited to the Southern States. 15 lbs. per bushel. Prices: 20c. per qt. (P. P. Wt., ½ lb.); 2 qts., 35c. (P. P. Wt., 1 lb.); 60c. for 4 qts. (P. P. Wt., 2 lbs.); pk. (3¾ lbs.), \$1.00; \$3.50 per bu.; 5 bu., \$16.25; 100-lb. lots and over, 21c. lb.

Special Sod Grass Seed. A quick growing mixture, making a very tough and heavy sod in a short time; especially valuable for cemeteries, tennis courts, pleasure grounds, etc. 15c lbs. per bu. Price: 25c. per qt. (P. P. Wt., ½ lb.); 2 qts., 40c. (P. P. Wt., 1 lb.); 75c. for 4 qts. (P. P. Wt., 2 lbs.); pk. (3¾ lbs.), \$1.00; \$4.00 per bu.; 5 bu., \$18.75; 100-lb. lots and over, 25c. lb.

NOTE.—All Grass Mixtures except Putting Greens, "Fair Greens" and Tennis Court Mixtures contain white clover. Any of them, however, can be furnished without this.

SCOTCH CHAIN HARROW

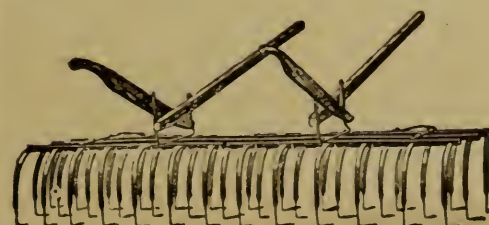


One of the best implements for pulverizing the surface soil, leveling and smoothing, and is also splendid for covering grass seeds, etc. Used on driveways and race tracks, it smooths the surface, eliminating ruts and footprints.

	Weight	
No. 1F. One-horse size, 5 x 6 feet.....	126 lbs.	\$18.50
No. 2F. Medium two-horse, 6 x 7¾ feet.....	236 lbs.	26.50
No. 3F. Full two-horse size, 9 x 11 feet.....	357 lbs.	32.00

KEYSTONE ONE-HORSE WEEDER

This is an ideal implement for covering grass seeds after sowing, just prior to rolling; also they can be used to great advantage in stirring the soil after a rain, prior to seeding, if a period of time has elapsed between ploughing, harrowing and seeding. It can be adjusted to cover a 7½-foot stretch or grad-



The Keystone Adjustable Weeder

uated down to a 2½-foot stretch. Any of the teeth can easily be removed, if it is desired not to cultivate very finely. The teeth are narrow, go into the soil easily; do not cultivate deep, like other machines. Price, \$10.00.



Michell's Permanent Pasture Grass Seed Mixture makes a nutritious feed for grazing cattle, and will grow quickly and luxuriantly.

ALPHANO HUMUS (Prepared)

Attention is again called to this excellent material offered in detail on page 48. For top dressing grass, especially on light, sandy or otherwise impoverished soil it will produce marvelous results. The effects from its use are so widely different from results obtained otherwise that we cannot help but give it the greatest endorsement. If you've a lawn to establish or improve you can't go wrong in Alphano Humus.

Prices f. o. b.
Phila., \$1.25 per 100 lbs.; 500 lbs., \$6.00; \$10.00 per 1000 lbs.; ton, \$16.50; special price f. o. b. factory.

MICHELL'S PERMANENT PASTURE GRASS SEED MIXTURE

In the past few years ideas of what was the best way to establish a permanent grazing sod have undergone many changes. The then prevalent method of sowing timothy and clover has been found not only costly but too short lived to answer the purpose. The old custom has given way to the new, which is the sowing of a mixture of permanent grasses. Michell's Permanent Pasture Grass Seed is composed of about 10 of the best growing and most nutritious grasses and clovers for stock feeding or grazing. One sowing will last many years, although we advise additional sowing each autumn, just previous to which a light harrowing is recommended to give the grass a quick hold. Sow 3 to 4 bushels per acre on new lands or 2 bushels on established pastures (15 lbs. per bushel). Prices: Per qt., 20c. (P. P. Wt., $\frac{1}{2}$ lb.); 4 qts., 50c. (P. P. Wt., 2 lbs.); pk., 85c. ($3\frac{3}{4}$ lbs.); bu. (15 lbs.), \$3.00; 5 bu., \$13.75; 100-lb. lots, 18c. lb.; 200-lb. lots and over, 17c. lb.

MICHELL'S PERMANENT HAY FIELD GRASS SEED MIXTURE

While timothy is still extensively sown for this purpose, this mixture is gradually being adopted by the progressive farmer. Its main advantages are that certain grasses in the mixture will grow better in varying conditions of soil, thus giving a full crop of hay on land that otherwise might produce but a half crop of timothy and clover. Our formula is the outcome of thorough trials in every kind of soil. Sow 3 to 4 bushels per acre on new lands, or 2 bushels on established fields (15 lbs. per bushel). Prices: Per qt., 20c. (P. P. Wt., $\frac{1}{2}$ lb.); 4 qts., 50c. (P. P. Wt., 2 lbs.); peck ($3\frac{3}{4}$ lbs.), 85c.; bu. (15 lbs.), \$3.25; 5 bu., \$14.00; 100-lb. lots, 18c. lb.; 200-lb. lots and over, 17c. lb.

TESTIMONIAL EXTRAORDINARY ON MICHELL'S PASTURE AND HAY GRASS SEEDS

Ardrossan Farms, Ithan, Pa.

I want to say something in regard to the grass seed which you supplied me with last autumn and the past spring. It has certainly been more than ordinarily satisfactory. Before using the seed I purchased, I had an expert examination made of the same for fertility and purity in comparison with samples from other houses, who furnished me samples of what they would supply. The examinations proved your seed to be superior in fertility and quality. As you are aware, I sowed a large acreage (some 60 acres) last autumn. Despite the unprecedented drought we had in the fall of 1914, I had an excellent harvest this year. A portion which did not pass through the winter so well owing to the drought and which I reseeded this spring will make a sod of the highest class, and while the ample rains we had this spring have helped considerably I am fully appreciative that the quality of the seed had much to do with the results obtained.

*Yours truly,
 R. L. MONTGOMERY.*



**MICHELL'S
"HAY FIELD"
MIXTURE**

PER BUSHEL \$3.25
5 BUSHEL \$14.00
100 LBS. \$18.00
200 LBS. \$34.00

MICHELL'S RECLEANED GRASS SEEDS, in Separate Varieties

Bermuda Grass. For sowing as far North as Washington, D. C., above which latitude it is not hardy. 75c. per lb.; 5 lbs., \$3.50.

Blue Grass, Fancy Kentucky (*Poa Pratensis*). Our stock of this is extra fine, thoroughly recleaned; sow 3 to 5 bu. per acre on lawns, 2½ to 3 bu. on pasture fields (bu. 14 lbs.). Per lb., 20c.; peck, 60c.; per bu., \$2.25; \$13.00 per 100 lbs.

Blue Grass Canadian (*Poa Compressa*). Makes an ideal pasture highly relished by cattle; excellent also for sowing on embankments; sow in same proportions as Kentucky Blue Grass Seed (bu. 14 lbs.). 15c. lb.; bu., \$2.00; \$11.00 per 100 lbs.

Creeping Bent (*Agrostis Stoloniifera*). Adapted admirably for lawns, also putting greens, tennis courts, etc., sow 4 bu. per acre (20 lbs. per bu.). 55c. lb.; bu., \$10.00; \$45.00 per 100 lbs.

Crested Dogstail (*Cynosurus Cristatus*). Excellent as a pasture and lawn grass. Sow 3½ to 4 bu. per acre (21 lbs. per bu.). Price, 40c. per lb.; bu., \$7.00; \$32.00 per 100 lbs.

English, or Perennial Rye Grass (*Lolium Perenne*). (Pacey's Fancy Short Seeded). This makes the quickest returns in growth of any grass; is deep rooted and is readily established. Sow 3 bu. per acre (24 lbs. per bu.). Price, 15c. per lb.; per bu., \$2.75; \$10.00 per 100 lbs.

Fine Leaved, or Slender Fescue (*Festuca Tenuifolia*). This grass is especially valuable for dry soils. Sow 3 bu. per acre (bu. 14 lbs.). Price, 55c. per lb.; bu., \$7.00; \$45.00 per 100 lbs.

Herd, or Red Top Fancy Recleaned. This is one of the best grasses for sowing for immediate effect. Our stock is free from chaff and is absolutely pure. Sow 25 lbs. per acre (32 lbs. per bu.). Price, 20c. per lb.; per bu., \$5.25; \$16.00 per 100 lbs.

Herd, or Red Top Unhulled (*Agrostis Vulgaris*). Sow 4 to 5 bu. per acre on lawns or 3 bu. on pasture lands (10 lbs. per bu.). Price, 15c. per lb.; per bu., \$1.25; \$10.00 per 100 lbs.

Hard Fescue (*Festuca Duriuscula*). A splendid grass for golf links, tennis courts, etc.; will resist droughts. Sow 3 bu. per acre (12 lbs. per bu.), 35c. per lb.; bu., \$3.75; 100 lbs., \$30.00.

Italian Rye (*Lolium Italicum*). Very desirable for pasture; being an annual, it comes to maturity the first season. Sow 50 lbs. per acre (18 lbs. per bu.). Price, 15c. per lb.; bu., \$2.25; \$11.00 per 100 lbs.

PRICES SUBJECT TO MARKET CHANGES

Note.—If Grasses are wanted by parcel post, allow for postage when remitting.

Meadow Fescue (*Festuca Pratensis*). Sow 40 to 50 lbs. per acre (22 lbs. per bu.). Price, 20c. per lb.; bu., \$3.00; \$12.00 per 100 lbs.

Orchard Grass (*Dactylis Glomerata*). For early pasturing this is very desirable; also fine for sowing in shaded places. Sow 40 lbs. per acre (12 lbs. per bu.). Price, 30c. per lb.; per bu., \$3.25; \$22.00 per 100 lbs.

Red, or Creeping Fescue (*Festuca Rubra*). Very valuable for sowing on sandy soil and in shaded places. (14 lbs. per bu.). Price, 40c. lb.; bu., \$5.00; \$32.00 per 100 lbs.

Rhode Island Bent (*Agrostis Canina*). For sowing at sea-shore resorts, on putting greens, tennis courts, etc.; 40 lbs. per acre (14 lbs. per bu.). 55c. per lb.; bu., \$7.00; \$45.00 per 100 lbs.

Sheep's Fescue (*Festuca Ovina*). This makes an excellent grass for sowing on lawns, fields, or pleasure grounds. Sow 40 lbs. per acre (12 lbs. per bu.). Price, 35c. per lb.; bu., \$3.50; \$27.50 per 100 lbs.

Sweet Vernal Annual. 5 lbs. per acre. 25c. lb.; 5 lbs., \$1.00.

Sweet Vernal Perennial. Price, 75c. per lb.; 5 lbs., \$3.50.

Sudan Grass Seed (*Annual*). This belongs to the forage crops and is allied to the millets. Sow 16 to 24 lbs. per acre. 20c. per lb.; 10 lbs., \$1.75.

Tall Meadow Oat (*Avena Elatior*). A valuable lawn and pasture grass. Extremely valuable for use in the South. Sow 5 bushels per acre (10 lbs. per bu.). 35c. lb.; bu., \$3.00; \$25.00 per 100 lbs.

Timothy (*Phleum Pratense*). Sow one-half bu. per acre alone (45 lbs. per bu.). 12c. per lb. Price varies constantly; ask for quotations.

Various Leaved Fescue (*Festuca Heterophylla*). Thrives well in low moist soils, matures early and is very hardy; good for shaded locations. Sow 40 lbs. per acre (15 lbs. per bu.). 35c. per lb.; bu., \$4.50; \$27.50 per 100 lbs.

Wood Meadow (*Poa Nemoralis*). The best grass for sowing under trees where a lawn is desired. Sow 30 lbs. per acre (14 lbs. per bu.). Price, 50c. lb.; bu., \$6.25; \$42.00 per 100 lbs.

Full Description of all grasses listed here is given in a special Booklet entitled "The Lawn," mailed free for the asking (hn)

56 MICHELL'S RECLEANED ALFALFA SEED (NORTHERN GROWN)

The great farm crop of America. We are headquarters for Recleaned Seed.

An Alfalfa field properly put down will last an ordinary life time, provided it gets a light coating of well rotted manure after the first few frosts of the autumn, and is harrowed carefully in the spring after it begins to make its growth. There might be instances where you would have a little stand of water on a patch, which would be the only thing we know of that would tend to kill the Alfalfa after it is once established. Weeds do not have a chance. The soil on any Alfalfa field must have natural, good drainage, as the plant will not stand for what we call having "wet feet."

In the States of Pennsylvania, Delaware, Maryland, New York and Ohio Alfalfa is mostly sown in the summer months, beginning from about the 10th of August up to about the first week in September, provided the weather is good. It is rarely successful if sown later than the first week in September, on account of the cool nights, which do not allow the seed to germinate quickly if sown later and on account of the little growth it will make thereafter that year.

Generally speaking, though, the month of August is the best time, because weeds do not grow at that period of the year, and these are one of the greatest (if not the greatest) enemies of Alfalfa.

No nurse crop is required for Alfalfa when it is sown in August, or early in September.

Alfalfa can be successfully sown the latter part of April and early part of May, but only provided a nurse crop is sown with it. The best nurse crop is either Spring Barley or Winter Rye. Sow $\frac{1}{2}$ bushel Alfalfa to the acre, and $\frac{3}{4}$ bushel of any one of the two nurse crops referred to. The idea of the nurse crop is to combat the growth of weeds. Unless the nurse crop is used, a Spring sowing of Alfalfa is invariably a failure.

If the land is idle, it would pay a man who wants to put in an Alfalfa patch to plough it in the Spring, and work it about every ten days with a harrow. Previous to ploughing, it should receive a coating of well rotted manure—as much as ten tons to the acre if it can be procured. When it has been ploughed, it should be harrowed, according to directions, every ten days until seeding time. The idea is to destroy every vestige of weeds, which exist in every soil.

In addition to the manure advocated, we should say that after the seed has been sown an application of 600 to 800 pounds of pure, raw, bone meal distributed evenly over the acreage would be the best commercial fertilizer to use.

One of the essential features in raising Alfalfa, of course, is to determine whether the ground is suitable for it, the greatest drawback being the fact that the soil might be sour. This can easily be determined before ploughing by taking a spade and turning up in different parts of the field a spade full of earth, and placing on it when turned up a piece of blue Litmus Paper. If the soil is inclined to acidity or sourness, it will turn the paper red. If the soil is sweet, the paper will remain in its natural condition.

Prices of Michell Recleaned Alfalfa Seed, 25c. lb. Price for larger quantity on application.

THE IMPERIAL ALFALFA CULTIVATOR OR HARROW

The Imperial Alfalfa Cultivator is a modified spring tooth harrow. It is the invention of a practical farmer, experimenter and lecturer on farm topics, Mr. John M. Jamison, of Roxabell, O. He first used it in 1910, and it was perfected in 1911. Since then many thousands have been made and shipped, going to every part of this country. They are in successful use on farms from Minnesota to Texas and from the New England States to California, doing work that can be done by no other implement.

They have the endorsement of many of the State Agricultural Experiment Stations, in fact by all that have tested them. They are recommended by alfalfa experts, by farm demonstrators and lecturers on agricultural topics and by hosts of practical farmers. All agree that this improved harrow is the one and only implement that is perfectly fitted to the work of alfalfa cultivation.

The time to cultivate is just after cutting a crop; any weeds that exist are most easily destroyed then, and the alfalfa will not be harmed provided the right cultivating tool is used. In some parts of the country cultivation is practiced early in the spring before growth has started. No cultivating should be done, however, until about one year after seeding, or at least until the plants have developed a strong root system.

Price of Imperial Alfalfa Cultivators with wheels:

No. A 121—2 sections; 21 teeth; 6 feet cut; 3 horse; 320 lbs. Price, \$25.00.
No. A 131—3 sections; 31 teeth; 9 feet cut; 4 horse; 480 lbs. Price, \$35.00.

If it is inclined to acidity, it should receive a coating of lime, after the manure has been spread, providing the land lime or lump lime is used, at the rate of from 2500 pounds to 3000 pounds per acre—and this ploughed in with the manure. If powdered lime is used, this can be put in at the rate of about 1500 pounds per acre, just prior to harrowing. If lime stone is used, this can be put in prior to harrowing at the rate of about 3000 pounds per acre. Subsequent dressings of either powdered lime or lime stone can be made every two or three years.

Alfalfa grown in Dakota, or in fact in most any of the Western States, if non-irrigated, is the best.

There is a great deal of talk about Grimm's Alfalfa, but our investigation of it has proved it to be entirely unnecessary for the Eastern farmer to go to the expense of buying that particular strain. Grimm's Alfalfa has, in addition to a top root, a series of leader roots, which are formed closer to the crown than the ordinary strains of Alfalfa, but the government statistics show that it is of no greater value to the eastern farmer than the ordinary strain, in fact, it will not yield per acre as much as will good non-irrigated western grown seed. Grimm's strain is being especially adapted to extremely cold climates, where sometimes the ordinary strain of Alfalfa winter kills.

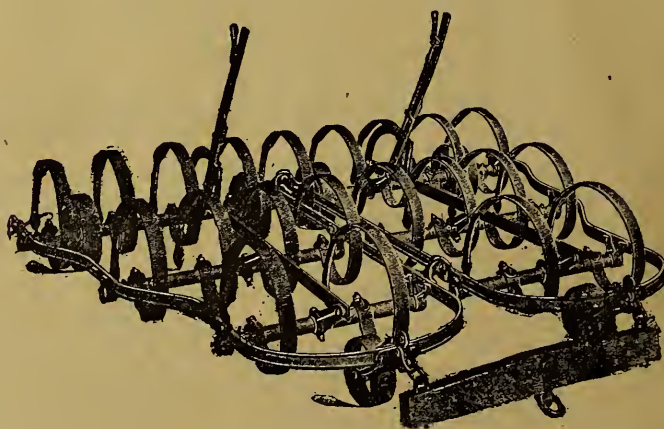
The proper quantity of Alfalfa to sow per acre is 30 pounds. Some people recommend 20, but this is not enough.

If the area to be sown is small, Alfalfa can be distributed by hand, as one would sow Grass Seed, or with a Cahoon Seed Sower; if the area is large, with a Wheel Barrow Seeder. The Wheel Barrow Seeder, without doubt, is the very best apparatus for this purpose, because it insures an absolutely uniform distribution of seed everywhere. The practice of inoculating Alfalfa with Bacteria is indeed very modern, and is done by mostly all people going into Alfalfa growing with the idea of making money. (See Page 57 opposite for Bacteria culture.)

Alfalfa is used to great advantage for feeding steers, cows, horses, sheep, pigs—in fact any farm animal. It is also good for poultry when steamed.

It does not require so much Alfalfa to feed an animal as it does Timothy or Mixed Hay, from the fact that it contains a greater amount of protein, which, of course, is one of the most valuable of food elements in any crop.

Animals not accustomed to Alfalfa, when it is first fed to them balk at it, but within six hours' time they will begin to nose about, and find that it is about the best food they have ever had.

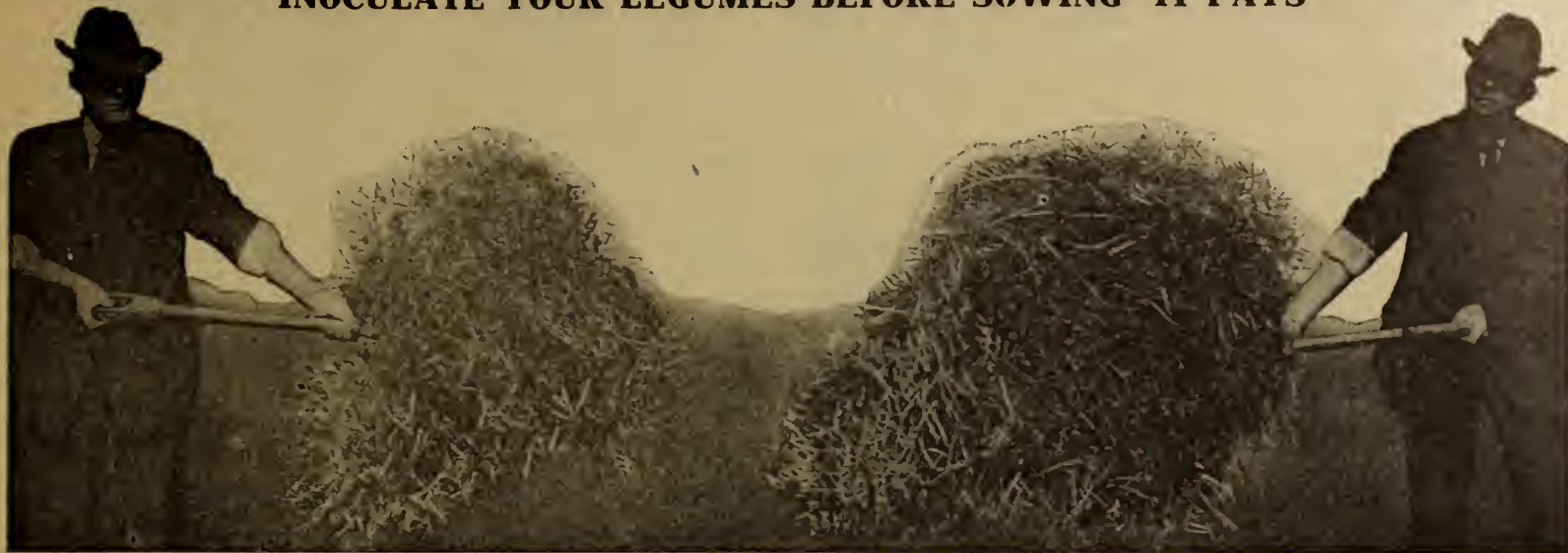


Imperial Alfalfa Cultivator

Add 22c. for each 2-bushel Seamless Bag on orders for Alfalfa

(hn)

INOCULATE YOUR LEGUMES BEFORE SOWING—IT PAYS



ALFALFA FROM A WELL PREPARED SEED BED—NO INOCULATION

ALFALFA FROM A WELL PREPARED SEED BED—INOCULATED

It will be seen that the yield of the latter is almost double that of the uninoculated seed

NITROGEN-GATHERING BACTERIA THE WONDERFUL FERTILIZER FOR LEGUMINOUS CROPS

ALFALFA AND OTHER LEGUMINOUS FARM CROPS WILL GROW MORE ABUNDANTLY

if the soil is properly sweetened with lime and worked to a good seed bed and the seed inoculated with high-bred bacteria. Without bacteria, of the proper variety, in sufficient amounts (and in an active nitrogen-gathering condition) it is impossible to successfully grow alfalfa or other legume crop.

A United States Department of Agriculture Bulletin says:—

"It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria, which enable the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating with the germ is resorted to, the crop will be a failure."

High-bred bacteria meets every condition above mentioned. They are grown and selected by a costly laboratory process until they develop the wonderful possible power of creating 2000 pounds of nitrates to the acre, while bacteria which may be found to exist naturally in the soil at various sections throughout the country create not more than one quarter of this amount.

High-bred bacteria is delivered in bottles ready to use by diluting with a little water and sprinkling on the seeds. Seed for ten acres can be thoroughly inoculated in ten minutes. The method of inoculation by means of a transfer of soil from fields in which a legume plant is or has been grown, is not only very costly, but weeds, molds and various soil diseases have been spread over wide areas by this primitive and unsatisfactory method.

The great Fertilizer Value of Legumes depends entirely upon Inoculation with these Bacteria. 1000 to 2000 Pounds of Nitrates to the acre can be deposited in little sacks or nodules on the roots of the legumes, which will be immediately available for any following crop. Legumes embrace all of the various types of clovers, peas, beans and such other plants that have blossoms similar in shape and form as the above named. This type of plant has the ability of taking from the air vast quantities of free nitrogen, which exists there and which is not absorbed by other plants than those which belong to the legume family. This nitrogen is taken (breathed so to say) through the stems of the plant and deposited at the roots in little sacks or nodules, where it becomes immediately available as plant food in the form of nitrates. The application of bacteria to the seed of these legumes when planting practically trebles the nitrogen-gathering power and for this reason we urge all planters to use it on all such occasions. Please note that the bacteria is not applicable to any other class of plant through inoculation, except as noted below; succeeding crops, though, following on ground where bacteria was used, derive tremendous benefits, as many plants that are not legumes require quantities of nitrates as plant food.

FARMOGERM

No. 1 for Red, White, Crimson and Alsike Clover.

No. 2 for Alfalfa or Lucerne.

No. 3 for Vetch or Canada Field Peas.

No. 4 for Soja Beans and Cow Peas when sown in mixture only.

No. 5 for Garden Peas, Garden Beans (Pole and Bush) and Sweet Peas.

Small size in No. 5 only. 25c. for trial size; garden or ¼-acre size, for all crops as offered, 50c. (postpaid); 1-acre size, \$2.00 (postpaid); 5-acre size, \$6.00 (P. P. Weight, 3 lbs.).

Note.—We are also prepared to furnish **Nodulene** at \$1.00 per acre. Its efficiency and authority is unquestionable. Write for circular.

MULFORD'S CULTURES

MULFORD CULTURES are scientifically prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A., with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

Be sure to specify the particular legume on which you desire to use the MULFORD CULTURES, otherwise we will not know how to fill your order.

ALFALFA (Lucerne)	Burr Clover	VETCH	LIMA BEANS
CRIMSON CLOVER	Yellow Clover	Horse Beans	Lupins
SWEET CLOVER	Berscem Clover	Velvet Beans	Sainfoin
WHITE CLOVER	COW PEAS	Perennial Peas	Lespedeza
RED CLOVER	SOY BEANS	SWEET PEAS	and others
ALSIKE CLOVER	CANADA FIELD PEAS	GARDEN PEAS	
Mammoth Clover	PEANUTS	GARDEN BEANS	

Those printed in CAPITAL LETTERS can be shipped immediately from stock. The others will be prepared to order and can be supplied in a few days.

PRICES

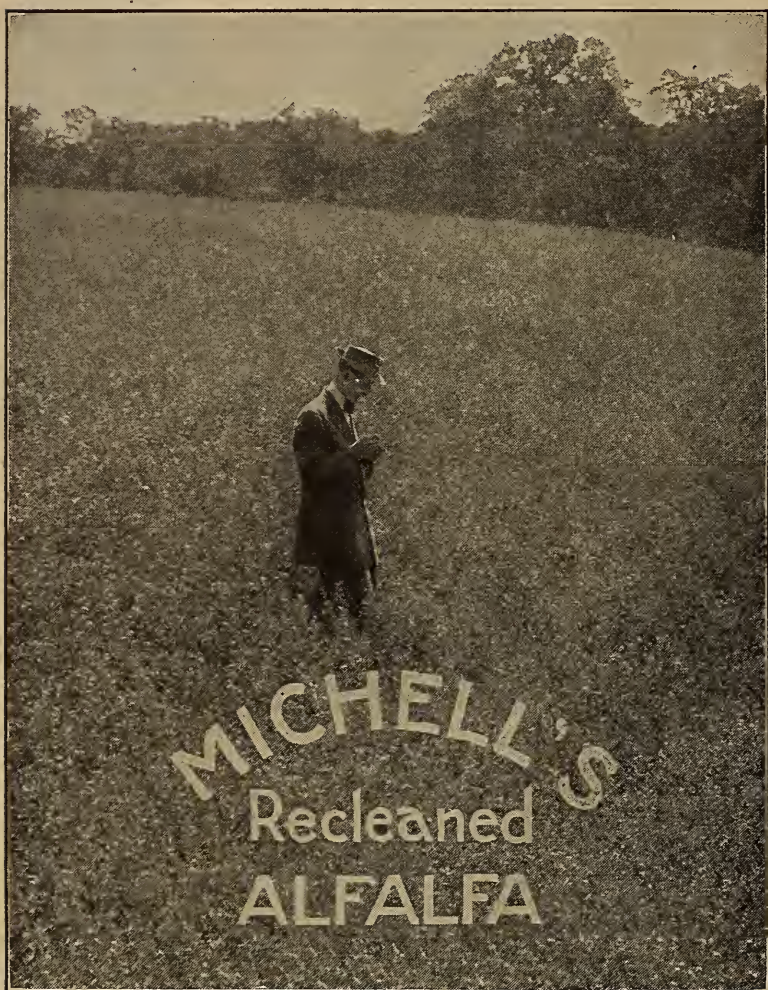
MULFORD CULTURES are supplied for the varieties of legumes listed above at the following prices:

5-Acre Size	\$5.00	("A Dollar per Acre")
1-Acre Size	1.50	
Garden Size (¼ acre) .....	.50	

MICHELL'S RECLEANED CLOVERS

(PRICES SUBJECT TO
MARKET CHANGES)

This line with us is a specialty. It is always economy to buy the best in farm seeds and that is just what we offer. We are extremely careful to see that all of our seeds are of the highest purity and germination tests, and our very large business in this department tends to show that this policy is the wisest.



An Alfalfa field will prove a good investment on any farm

Alfalfa or Lucerne (*Medicago Sativa*). The most valuable forage crop on the American farm today, and can be truly termed a mortgage lifter. It is sown during May, August and September, these being the best months for success, although it can be sown at other times with a possible chance of doing well. Careful preparation of the soil previous to sowing is the main thing. Our special Circular on Alfalfa goes into this carefully and is free for the asking. Sow not less than $\frac{1}{2}$ bushel (30 lbs.) per acre preferably with no other crop. Our seed is always over 99% pure, and will invariably give the best of results. Price, per lb., 25c. Write for price on larger quantities, as it changes.

Alsike or Swedish Clover (*Trifolium Hybridum*). One of the best for mixing with timothy; it is perfectly hardy in every climate or soil condition and seldom has to be reseeded. Under ordinary conditions it grows from 1 to 2 feet high, is sown early in the spring or late summer and early autumn. It is as nutritious as red clover and is rapidly coming to the front as a valuable farm crop. The flower resembles the white clover except that the head is larger and has a red tinge on the edge. Sow 10 to 15 lbs. per acre alone or 8 lbs. per acre with timothy. Price, 25c. lb. Price on larger quantity on application.

Bokhara or Sweet Clover (*Melilotus Alba*). While extensively used as a bee food, this is a valuable variety for soiling (green manure); for sowing in spring on lands which are later to be sown in Alfalfa, this is an excellent article. It inoculates the ground and seems to render it more capable of insuring a good stand of Alfalfa than if it is not used. It grows from 3 to 5 feet high, according to soil and location; can be cut often as three times in a season if wanted for forage. Sow 15 lbs. per acre in early spring, alone, or 10 lbs. per acre with other crops. We handle only the true white flowering hardy variety. Price, 35c. per lb.; 10 lbs., \$3.00.

Crimson Clover (*Trifolium Incarnatum*). Delaware Grown Seed. This is used principally for soiling or green manuring, for which purposes it is highly valuable. If desired for feed, cut it just before it flowers. When desired for green manure it should be allowed to mature; its height is from 1 to 2 feet. Sow any time from April to October, the earlier the better, 20 lbs. to the acre. If sown in early spring it can be plowed down the first year, although no other crop can be raised on the field that season. Fall or late summer seeding makes it possible to use the field the following season. It is not hardy for more than one season and must be sown each year, flowers crimson. Price, 15c. per lb.; larger quantity prices on application.

Mammoth Red Clover (*Trifolium Pratense Perenne*). Sometimes called Sapling or Pea Vine Clover and English Cow Grass. This differs from the "Medium," being of a ranker growth and yielding more fodder per acre. It ripens somewhat later and is more hardy, lasting several seasons longer than the medium red clover. It also does well on poorer soils. The seed cannot be distinguished from the former. Our supply, however, is strictly reliable. Sow in early spring or in July and August, using 20 lbs. per acre alone or with other crops 10 lbs. per acre; flowers pink. It can be harvested several times in a season. 25c. per lb.; larger quantity prices on application.

Red Clover, Medium (*Trifolium Pratense*). More widely known and used than any other, used principally for hay purposes. Height from 18 inches to 2½ feet. Sow early in the spring or in late summer—July and August; if alone, 20 lbs. per acre; if with other crops, 10 lbs. per acre. A red clover field can usually be cut twice in a season. It is not hardy for a period of years, being usually resown every third season; flowers pink. Price, 25c. lb.; larger quantity price on application.

White Dutch or Lawn Clover (*Trifolium Repens*). This is valuable for pasturage; it succeeds where other clovers and grasses fail, and it seldom dies out. It can be sown at all seasons although early spring is best; flowers greenish white. Sow 10 to 12 lbs. per acre if alone or 5 lbs. if sown on old turf or with other crops. $\frac{1}{4}$ lb., 20c.; 65c. lb.; 5 lbs., \$3.15; \$6.00 for 10 lbs.; bu. (60 lbs.), \$34.25; \$55.00 per 100 lbs.



Our Strains of Red Clover in both Mammoth and Medium types are usually fine

Allow 22c. for each 2-bushel Bag for shipping clovers. (These are returnable for credit)

(ha)

MICHELL'S HIGH GRADE FARM SEEDS, Etc. 59

We make a specialty of Farm Seeds, and on this and the following 3 pages will be found a list of the popular kinds. They are all extra re-cleaned of new crop and should give splendid satisfaction. Prices are not named here for large quantities as they fluctuate constantly, however we will be pleased to quote prices before shipping, or if customers wish we will fill their orders at lowest prevailing rates for high quality seed.

Always allow 22c. for each two bushel seamless bag when ordering farm seeds. These are returnable for credit at the price charged.

ALFALFA (See page 56)
ARTICHOKES (See page 46)

BUCKWHEAT

In the locality of Philadelphia this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcasted to the acre. If one has the ground prepared and the opportunity, it can be sown as early as May 1st. It makes a very fine quality of flour, and is largely used for poultry food. For planting adjacent to game preserves it provides excellent food for the birds. The flower makes ideal bee food; while the straw is very abundant. Our seed is grown by a specialist in New York State, who procures his seed stock every few years from Japan. Any of the clover crops can be sown with buckwheat, these to mature the following season. Buckwheat frequently yields as much as 80 bushels to the acre.

Silver Hull. Late maturing variety; grain making whiter flour; very prolific.

Japanese. Very early variety. Dark, large grain. Price of Buckwheat, 15c. per quart; per peck, 50c. For larger quantities, price on application.



A Field of Japanese Buckwheat

BARLEY

There is a threefold purpose in growing barley. Its straw is good for green feed or when cured, as hay. The grain in the hull is excellent poultry feed and with the latter removed is used in the household. It is a quick growing crop and very nutritious. If wanted for hay it should be cut while the grain-head is in a soft or milky condition. Sow broadcast $1\frac{1}{2}$ to 2 bushels per acre from May 15th to July 1st. 48 lbs. per bushel.

Barley makes an ideal nurse crop for spring sown Alfalfa. It frequently means the difference between success and failure with the latter. When sown in connection with alfalfa use $\frac{1}{2}$ to $\frac{3}{4}$ bushel per acre broadcast; when ripe harvest as usual or cut and rake off and invariably you will find a good Alfalfa growth ready to hustle ahead.

Beardless Barley. New York grown stock frequently yields 50 bushels per acre. 15c. qt. Larger quantity, price on application.

BROOM CORN "EVERGREEN"

The chief value of this plant lies in the top or brush, as it may be called, which is made into brooms. The fodder is suitable for bedding and grows to a height of about nine feet. This sort produces extremely straight brush, retaining its green color well after ripening, thus commanding highest market prices. Sow in May about ten pounds per acre in drills 3 feet apart. Plants should be thinned out to stand 3 inches apart in the row. It is usually in condition for cutting on the first approach of the frost, the brush part being gathered first. Yields 1000 lbs. of salable brush per acre. Bushel, 46 lbs. 15c. qt. Larger quantity price on application.

CLOVERS (See page 58)

FLAX

This is grown for the fibre from which linen thread is made and also for the seed from which that indispensable product, "Linseed Oil," is made. When ground it makes an excellent tonic when fed to horses, cattle and poultry. If sown to harvest seed, plant a bushel to the acre from May 15th to June 15th. If desired for the fibre, sow $1\frac{1}{2}$ to 2 bushels (bushel, 56 lbs.). Lb., 10c.

GRASSES see pages 48 to 55 inclusive.

Beardless Barley

(ha)



BEANS, SOJA OR SOY

This very valuable farm plant enriches the ground in which it is planted by the free nitrogen gathered from the air and which is deposited in the ground by the roots, leaving it in ideal condition and rich in nitrogen for the next crop. Fodder is relished in either green or dry form by cattle and dairy cows. Excellent to combine as feed with other hay or corn. The seed when harvested and ground into meal gives milk a very rich flavor and is fed with great advantage to milch cows mixed with bran or any other soft feed. Plant $\frac{3}{4}$ bushels to the acre in drills $2\frac{1}{2}$ feet apart, which will place the plants about 10 to a foot, anywhere from the 1st to the last of May. If wanted for silo it will be ready for harvest about the first of September or earlier, when the pods will be well filled; yields as high as 20 tons of green food per acre. (Per bushel, 60 lb.)

Mammoth Yellow (Late)

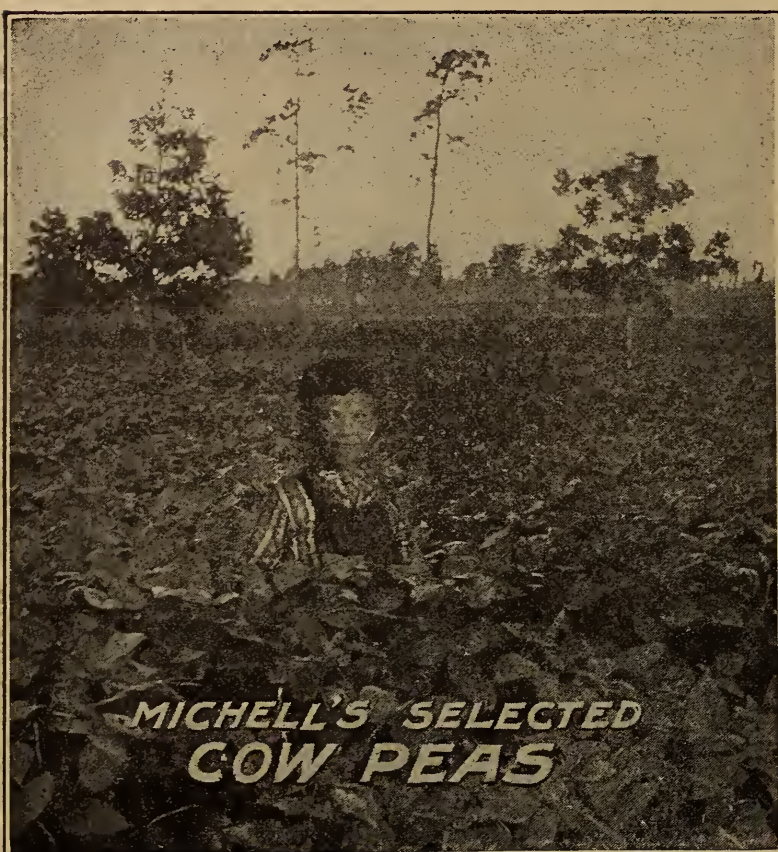
Ito San (Very Early)

Early Hollybrook

Wilson (Early)

Prices on Application

2-Bushel Seamless Bags used on Farm Seeds. 22c. each (returnable at price charged)



COW PEAS

Note: Occasionally some people order **Cow Peas**, thinking they are the same as **Canadian Field Peas** and sow them early and in consequence they do not germinate, as they do not stand cold, and the innocent seedsman is blamed for what is not his fault. There is a wide difference between Cow Peas and Canadian Peas, the latter which are offered in the opposite column.

Cow Peas are one of the best, largest yielding and most nutritious of the farm crops; they provide the most inexpensive methods of bringing soil back to a stage of fertility. In the South it is the staple forage crop for winter feeding. On ordinary ground they will yield from 10,000 to 20,000 lbs. of green fodder to the acre. They grow in the poorest kind of soil, taking the free nitrogen from the air, which it deposits in the ground through the roots, leaving it very rich in ammonia. The short-growing varieties are best for turning under as green manure, while the trailing sorts are desirable for hay. Cattle, sheep or hogs can be turned into a field of them and they will eat it off greedily and the stubble can be plowed under. In the latitude of Phila., sow from May 1st to July 1st, 2 bushels per acre broadcast, or 1 bushel per acre in drills. For a large crop sow the seed as late as possible and not too thick.

Black. One of popular varieties extensively grown. It is very prolific and matures early. It is of upright growth, consequently preferred for ploughing under or for raising stock.

Large Black Eye. An exceedingly heavy cropper, but late to mature. In the South, the seed of this variety is sold for dried peas for household use, and it is claimed they are quite delicious.

Whippoorwill. Medium early, upright growing, variety extensively used, more than any other. The seed is brown and gray speckled. It is a heavy producer of both pods and fodder. Some claim this variety gathers more nitrogen than others.

New Era. Of upright growing habit, quick to mature and remarkably prolific in both vines and pods. The seed is smaller and requires only from $\frac{3}{4}$ to 1 bushel for sowing an acre.

Early Ramshorn. This is a black eyed variety, but much earlier than the regular black eyed type. The vines are enormous with an abundance of pods.

Prices: These fluctuate constantly; will be quoted on request.

NITROGEN-GATHERING BACTERIA

This will be found a very valuable preparation in connection with plantings of Cow Peas. See page 57 for full particulars.



Canadian Cluster Oats

CHOICE SEED OATS

Our prices are all based on the legal weight of 32 lbs. per bushel. Sow from April till June, 3 bushels to the acre.

Our stocks of Seed Oats are unusually good, free from weeds, mustard, etc., and may be counted upon to yield large crops.

Swedish or Washington. The long erect straw is noted for its ability to stand up in rough weather; grains are very plump and nearly pure white in color; this variety is especially free from rust and other disease. 15c. qt.; peck, 40c; \$1.50 bushel.

Canadian Cluster. This variety is an enormous yielder, producing very large heads. Originally brought from the oat-belts of Canada, but has now been thoroughly acclimated to the climate of the United States. 15c. qt.; peck, 45c; \$1.50 bushel.

Storm King (Pedigree Stock). Our strain of this variety was brought from Russia three years ago and is, without a doubt, the finest and plumpest oats we have ever seen. The straw is very stiff, often measuring five feet in height. Our supply of this is limited and we recommend early ordering, as the demand usually exceeds the supply. Often yields 85 bushels per acre. 20c. qt.; peck, 60c; \$2.00 bushel.

Welcome. This is one of the popular varieties, extensively grown in the locality of Phila.; it yields a heavy stiff straw and is a large producer. 15c. qt.; peck, 35c; \$1.20 bushel.

FIELD PEAS (Canadian)

These are used for various purposes, chief among them being a very early green food; when used this way they are sown with oats about April 1st at the rate of $1\frac{1}{2}$ bushel of Peas and $1\frac{1}{2}$ bushel of Oats to the acre either drilled or broadcast. They are cut just after the peas flower and fed green; sheep, hogs and cattle relish them keenly. They may be sown successively up to July if one has the available land. Peas may also be sown alone at the rate of 3 bushels per acre and furnishes excellent hay. For plowing under as green manure, they add a vast amount of nitrogen to the soil and succeeding crops sown there the same year or even later, particularly wheat, are wonderfully benefitted by producing a more luxuriant growth and larger yield. The dried peas are extensively fed to pigeons while when ground as meal is an excellent addition to the regular soft food of cows, sheep and horses. Price changes constantly and will be quoted on request.

Two-Bushel Seamless Sacks, used on Farm Seeds, 22c. each; returnable at price charged

CARROTS

See offer under heading of Vegetable Seeds.

CATTLE BEETS (Mangel Wurzel)

See offer under heading of Vegetable Seeds.

COTTON SEED

Sea Island. If sown early in May, will mature in the latitude of Philadelphia. Pkt., 5c.; 10c. per ¼ lb.; lb., 20c.; 75c. for 5 lbs.

KAFFIR CORN—White, for Seed

This belongs to the Sugar Cane family and has great drought-resisting qualities; the grain is used for feeding poultry and the fodder for cattle, is ideal for planting where the corn seed has failed to germinate and it is too late to replant. Grows from 4 to 6 feet high, the grain being produced on the top of a stalk in the shape of a brush; frequently as many as four heads of grain will be found on a single stalk. It usually ripens after the first few frosts; produces enormous crops. Can be sown as late as July at the rate of 10 lbs. per acre in drills. Bu. (56 lbs.), 10c. qt. Price for larger quantity on application.

RAPE

Dwarf Essex. This makes an indispensable green food for sheep and hogs. It can be pastured 8 weeks after sowing; the growth is enormous; if one has the available land it is good to sow in succession, as the stock eat it close to the ground and it will not stand pasturing any great length of time; this, of course, depends on the number of head turned on an acre. Sow 6 lbs. per acre broadcast or in drills from April 1st to October 1st. It produces enormous crops and is ideal green manure. Experiment Stations recommend that stock, feeding on it, should have ready access to salt. This is an ideal food for young lambs and hogs and does well under trying conditions. 15c. lb. Price for larger quantity on application.



A Head of Japanese Millet

winter cover crop, being usually sown in the autumn as late as November, making a very fine yield of long stiff straw. Winter rye will not mature if sown in spring. Sow 1½ bushels per acre. 10c. qt. Larger quantity price on application.

SUGAR CANE or SORGHUM

Early Amber. Either green or in a cured state this makes ideal cattle food; it imparts a desirable flavor to milk. The seed can be thrashed out of the stalks and used as poultry feed. It is a tremendous producer, growing often 12 feet high; it stands the hot, dry weather and can be cut several times in one season. Sow 25 lbs. of seed to the acre in drills 3½ feet apart; 1 or 2 bushels broadcast. Bu. (48 lbs.), 15c. qt. Larger quantity price on application.

MILLET

Can be sown as late as July 15th and yield a tremendous crop. Is also desirable for green manuring, when it should be turned under when about 10 inches high. It makes an excellent green food for stock not allowed to pasture. If used for hay and dried it should be cut just as it matures.

Hungarian. The seed produces hay not so fine in quality as the "German," also fully a foot less in height, it can, however, be sown some 2 weeks later. Sow 1 bushel (48 lbs.) per acre. 15c. qt. Price on larger quantities on application, account of change in market value.

Japanese Barnyard. This wonderful Millet yields possibly more fodder than any other forage plant that requires so little to sow an acre. Frequently as high as 12 tons of green food has been obtained from an acre. If sown early in May it may be cut twice in one season. Sow 12 lbs. per acre broadcast anywhere from May 1st to June 15th. 10c. lb.

Pearl (Pencillaria Spicata). A valuable fodder plant. Enormously productive. Sow in drills 2 feet apart, 10 to 12 lbs. per acre. 12c. per lb. Price for larger quantities on application.

Tennessee, German or Golden. This requires a longer season to mature than the other sorts; it produces, however, a very fine quality of hay and makes a larger seed head. In good seasons it grows about 4 feet high. Sow 1 bushel (48 lbs.) broadcast to the acre, from April 10th to July 10th. 15c. qt. Price on larger quantities on application, account of change in values.

SEED RYE

Spring. This furnishes an excellent early green food if cut, or for pasture; the grain is used for feeding and other purposes, while the straw is a very fine quality, making a larger yield than the winter rye from which it is quite distinct, the seed being smaller. Sow 1½ bushels broadcast or in drills from May to June 1st. 56 lbs. per bu. 10c. qt. Price for larger quantity on application.

Thousandfold Winter. This makes a fine



Sorghum Makes Fine Green Food for Dairy Cows



A Bumper Crop of Spring Rye

2 MICHELL'S SELECTED FARM SEEDS, Etc.

TIMOTHY SEED

Each year we handle a number of carloads of this. We aim to sell the purest and highest germination quality. Our prices are as low as quality will allow. Price, 15c. per lb. Samples and quotations on larger quantities cheerfully on request.

TEOSINTE (Reana Luxurians)

This is used extensively in the South, where it is, at times, difficult to grow forage crops on account of the long periods of drought and frequently poor soil; a single plant makes a tremendous growth, often producing as many as fifty stalks. Its foliage is like corn leaves, very broad and contain a sweet sap. Cattle eat it with a relish. It stands 5 feet high when matured, but it can be cut when two or three feet high. It produces new branches or stalks from the roots. Sow during May and June in drills $3\frac{1}{2}$ feet apart, 5 to 6 lbs. per acre. 75c. per lb.; 5 lbs., \$3.50.

SUNFLOWER

Mammoth Russian. This makes a splendid poultry food, especially for winter use, on account of its heating and fattening qualities. Will yield sometimes as high as sixty bushels per acre. Harvest after first few frosts, cutting the seed head from the plant, piling them closely on the grain floor or hanging them in bunches on the rafters of the barn until thoroughly dry. Sow 10 qts. per acre in drills 3 feet apart, dropping the seed about every 4 inches. 10c. qt. Price for larger quantity on application.

SPELTZ or EMMER

This grain resembles wheat but is a much larger yielder, producing frequently as high as 80 bushels of grain per acre, and that on the poorest land. The hay if cut green is desirable for horse or cattle feed, while the straw after thrashing is equal to the best wheat. The grain is desirable for feeding to hogs or poultry. Sow as you would wheat, 2 bushels per acre any time after April 1st; the earlier the better. 15c. qt. Price for larger quantity on application.

VETCHES or TARES

This has been used in Europe for many years as a stock food and green manuring or cover crop. It does best if sown with rye, the latter gives it support and thus ensures enormous crops. It makes an ideal hay and it is a pity that every American farmer does not use it. It fertilizes the ground without further trouble or cost, on account of the free nitrogen it gathers from the air. It produces a peculiar vine plant with very narrow foliage and elongated flowers of pinkish white in clusters. The height when supported is frequently 4 feet.

Winter Vetch (*Vicia Villosa*). Sometimes called Sand or Hairy Vetch. Our stock of this is the true type, being imported by us direct from Russia and which will absolutely live throughout the winter. There is also an English strain on the market which is not hardy in the Northern sections of the United States, and buyers should beware when buying that they procure the right article, which is a small round black seed; this is far superior to Crimson Clover, as it never winter-kills. Sow from August 1st to October 1st, but the earlier the better, broadcast, 1 bushel per acre, to which we suggest adding a bushel of winter rye or wheat. In the spring it can be plowed in as green manure, or when in flower cut for hay. All stock relish it keenly. Price for larger quantities on application.

Spring Vetch (*Vicia Sativa*).

The seed of this is larger than the "Winter" and of a brownish gray color. It is not hardy and must, therefore, be sown in the spring during May or June, 1 to 2 bushels per acre if broadcast and 1 bushel if in drills, with either spring wheat, spring rye or oats for support. It possesses very much the same desirable features as the winter vetch. Price for larger quantities on application.

SPRING WHEAT

A desirable crop to sow where fall-sown wheat has been killed by severe winter; the grain is very hard and of excellent milling quality. Macaroni is made from this variety. Our stock is grown in the extreme Northwest and is very fine.

Saskatchewan Fife. This is the favorite sort in this locality and is used on account of its prolific, vigorous growth and early qualities. It often produces 50 bushels per acre. Sow in April or May $1\frac{1}{2}$ to 2 bushels per acre, broadcast or in drills. 15c. qt. Price for larger quantity on application.

SUDAN GRASS

An annual and must be sown each year. Resembles millet somewhat; stock seem to relish it; will yield from 2 to 4 tons per acre. Sow in drills or broadcast 16 to 24 lbs. per acre; several cuttings can be made from a sowing in one season. Thrives excellently in a season of drought. 20c. lb.; 10 lbs., \$1.75; 25 lbs., \$3.75; \$12.00 per 100 lbs.



FIELD SEED CORN

Prices on Field Corn subject to market changes

Plant 8 to 10 qts. per acre in hills sow $2\frac{1}{2}$ to 3 bushel broadcast for fodder

Our strains of corn are not the common kinds usually found in abundance on the market, we pay as much attention to carefully selected stocks in all lines of farm seeds as we do the critical vegetable and flower seed part of the business. This is particularly true of field corns where re-selection means the limit of crop with little or no increase in cost. It is amazing to realize where the old unselected seed is used the average crop per acre is only half compared to the more intelligent selection of strains. Our stock is selected for size of ear and fodder, uniformity of kernel and the careful finish of the tip and butt, all of which mean a considerable increase in production.

Never use feeding Corn for Seeding Purposes

Leaming Early Dent (Pedigreed Stock). This variety has always been used foremost by most planters of field corn. It is readily distinguished by the beautiful long ears of deep grained, uniform kernels, resplendent in a deep shade of golden orange. The cob when shelled is very small and of reddish color. The stalks grow about 7 feet, very leafy, excellent for fodder, and on the average will produce two ears to the stalk. This strain assures the largest ears with every kernel perfect; ripens in 90 days and occasionally crops 100 bushels to the acre. On the ear only in 1 bushel crates, \$4.00 per crate; 5 bushels for \$18.75. (Stock of this limited.)

Leaming Early Dent. This is our usual carefully grown stock, which is excellent in every respect. Qt. 15c., 40c. for 4 qts., peck 60c., \$2.25 per bu.

Golden Beauty. The broad massive golden yellow dented grains are arranged very evenly on gigantic cobs. The fodder is enormous, often growing 12 feet high; it matures late but yields wonderful crops; desirable for silo and ensilage purposes. Qt. 15c., 40c. per 4 qts., peck 60c. \$2.25 bu.

Chester County Mammoth. A native variety of this vicinity, grown especially for us by a private expert corn raiser. The ear and stalk are almost as large as Golden Beauty. The dented kernel is deeper, however, and of a light yellow shade; a late maturer. Qt. 15c., 35c. per 4 qts., peck 60c., \$2.25 per bu.

Cloud's Early Yellow Dent. Our stock of this is grown by the originator, who is extremely careful. Every grain is uniform and perfect. Though the fodder grows often 10 feet high, the crop is matured in 100 days. The ear is about 10 inches long with a very thin cob when shelled, while the canary yellow grains are about $\frac{3}{4}$ of an inch long. It delights in rich soil if the best is expected of it. Qt. 15c., 40c. for 4 qts., peck 65c., \$2.25 per bu.

100 Day Bristol. This matures within the time named and produces large stalks. The ears are about 9 inches long, very thin cob when shelled. The sulphur yellow grain is dented, very broad and not very deep; an easy variety to husk. 15c. qt., 4 qts. 35c., 60c. peck, bushel \$2.25.

Early Canada Flint (Eight Rowed). This is a medium broad grained variety, perfectly smooth on the end and very hard. Makes a desirable sort for late planting. The cobs are very thin when shelled, excellent for pigeon and poultry feed. Qt. 15c., 35c. for 4 qts., peck 60c., \$2.25 per bu.

Hickory King. A very broad dented white grain, white cob variety, for ensilage, silo and fodder purposes it is ideal. It matures very late, but is an enormous producer. Qt. 15c., 35c. for 4 qts., peck 60c., \$2.25 per bu.

Virginia Ensilage. This grows invariably 12 to 14 feet high, stands up during the most severe windstorms. The seed is white, very deep and broad, with a thin red cob. It is the principal ensilage corn of the South. It will yield more fodder than any other variety. Qt. 10c., 30c. for 4 qts., peck 60c., \$2.00 per bushel.

Red Cob Ensilage. A long narrow white grain, a late maturer and used for silo, green feed or ensilage purposes. A tall rank grower and prolific in leaves. 10c. qt., 4 qts. 30c., 50c. peck, bu. \$1.85.

Eureka Yellow Dent, for Ensilage. Light canary yellow deep grained fine ear and fodder. Qt., 15c.; 35c. for 4 qts.; peck, 60c.; \$2.25 bush.

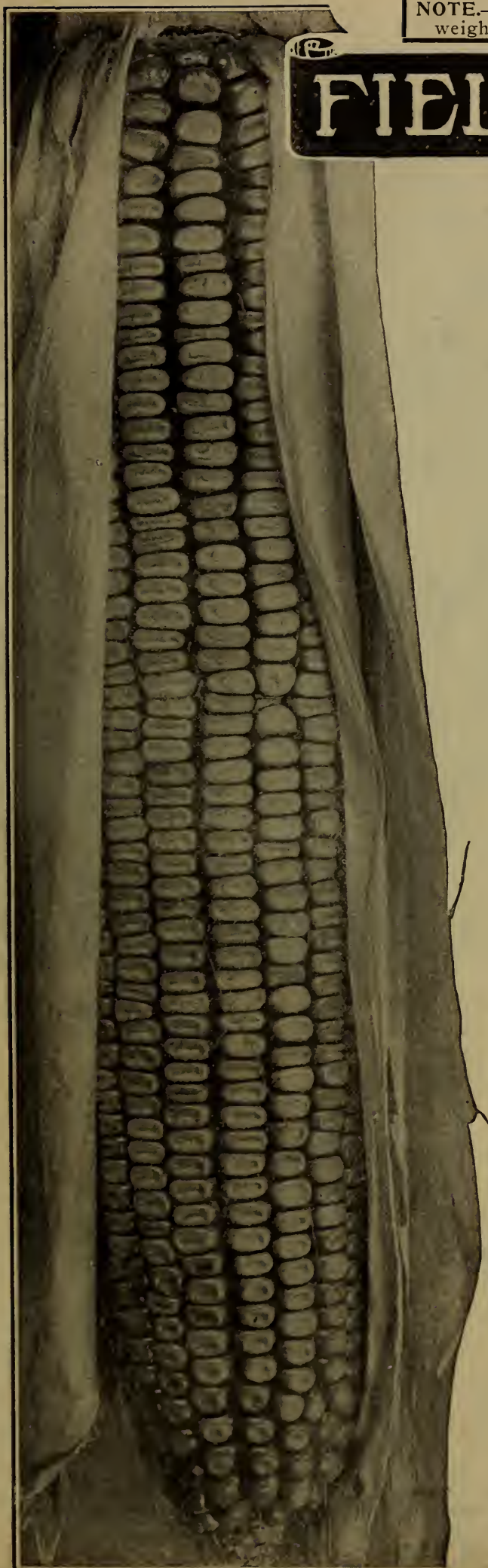
AMERICAN HAND CORN PLANTER

A planter of this type is a great economizer of seed, saving labor. Price, \$2.00.

Keystone Horse Power Planter, \$15.00 each.



American Hand Corn Planter





Michell's Distinctive Flower Seeds

"SUBURBAN" COLLECTION OF ANNUALS

\$3.00 Worth at Catalogue Prices for \$2.00.

- 1 oz. Nasturtium. Dwarf Fancy Giant. Mixed.
- 1 oz. Nasturtium. Tall Fancy Giant. Mixed.
- 1/4 lb. Sweet Peas. Spencer Varieties. Mixed.
- 1 oz. Mixed or Wild Flower Garden Seeds.

And one packet each of the following:

- | | |
|------------------------------|---------------------------------------|
| Ageratum. Blue Perfection. | Marigold. Pride of the Garden. |
| Alyssum. Little Gem. | Mignonette. Machet. |
| Aster. Invincible. Mixed. | Pansy. Giant Trimardeau. |
| Balsam. Camellia Flowered. | Petunia. Choicest Mixed. |
| Calliopsis. Golden Wave. | Phlox Drummondii. Grandiflora. Mixed. |
| Candytuft. Giant White. | Poppy. Michell's Shirley. |
| Celosia. Thompsoni Magnifica | Portulaca. Double Mixed. |
| Centaurea. Emperor William. | Sunflower. Cut-and-Come-Again. |
| Cosmos. Giant Fancy Mixed. | Zinnia. Giant Robusta. Mixed |
| Dianthus. Double Fringed. | |
| Eschscholtzia. Golden West. | |
| Larkspur. Giant. Mixed. | |

"POPULAR" SEED POCKET OF ANNUALS

75c. Worth at Catalogue Prices for 50c.

One packet each of the following:

- | | |
|----------------------------|------------------------------|
| Alyssum. Sweet. | Petunia. Fine Mixed. |
| Aster. China, or German. | Phlox Drummondii. |
| Cosmos. Giant Mixed. | Poppy. Paeony Flowered. |
| Marigold. Dwarf French. | Portulaca. Single Mixed. |
| Mignonette. Sweet Scented. | Sweet Pea. Gilt Edge. Mixed. |
| Nasturtium. Dwarf Mixed. | Zinnia. Tall Double Mixed. |
| Nasturtium. Tall Mixed. | Mixed or Wild Flower Garden. |
| Pansy. Very Fine Mixed. | |

"QUAKER CITY" COLLECTION OF ANNUALS

\$1.50 Worth at Catalogue Prices for \$1.00.

- 1 oz. Nasturtium. Dwarf Fancy Giant. Mixed.
- 1 oz. Nasturtium. Tall Fancy Giant. Mixed.
- 1 oz. Sweet Peas. Magnificent. Mixed.

And one packet each of the following:

- | | |
|-----------------------------|---------------------------------------|
| Ageratum. Blue Perfection. | Mignonette. Sweet Scented. |
| Alyssum. Little Gem. | Petunia. Choice Mixed. |
| Aster. Improved Branching. | Phlox Drummondii. Grandiflora. Mixed. |
| Centaurea. Emperor William. | Poppy. Carnation Flowered. |
| Cosmos. Giant Mixed. | Portulaca. Double Mixed. |
| Larkspur. Tall. Mixed. | Zinnia. Giant Robusta. Mixed |
| Marigold. Large African. | |

COLLECTION OF HARDY PERENNIALS

\$1.60 Worth at Catalogue Prices for \$1.25.

One packet each of the following:

- | | |
|-------------------------------------|------------------------------|
| Aquilegia. Single Mixed. | Heuchera. Sanguinea. |
| Calliopsis. Lanceolata Grandiflora. | Hollyhock. Chater's Double. |
| Campanula. Pyramidalis. | Lobelia. Cardinalis. |
| Delphinium. Formosum. | Phlox. Decussata. Mixed. |
| Dianthus. Clove Scented. | Poppy. Orientale. |
| Digitalis. Gloxiniaeflora. | Pyrethrum. Single. Mixed. |
| Mixed. | Scabiosa. Caucasia. |
| Gaillardia. Grandiflora. | Stokesia. Cyanea. |
| Gypsophila. Paniculata. | Sweet William. Double. |
| | Mixture of Perennial Flowers |

Collections of Asters, Dianthus, Phlox, etc., will be found under their respective heads.

FLOWERS AND PLANTS FOR ROCK GARDENS

In the past few years Rock Gardens and Rockeries, although of ancient origin, have justly come in favor again. There are few gardens, where something of this sort might not be constructed and made highly attractive, especially in locations where stones are plentiful. They may be used for hiding unsightly objects, or for giving variety to an otherwise flat and monotonous garden. Below we give a selection of plants, especially suited for this purpose.

Varieties marked S. can be furnished in seeds only; marked P., plants only; marked S. P. either plants or seeds. See index of catalog for listing.

S. P. *Alyssum maritimum* (Sweet Alyssum)
 S. P. *Alyssum saxatile compactum* (Gold Dust)
 S. P. *Aquilegia* in varieties (Columbine)
 S. P. *Arabis alpina* (Rock Cress)
 S. *Asperula odorata* (Woodruff)
 P. *Aubrietia* (Wall Cress)
 S. P. *Candytuft sempervirens*.
 S. P. *Campanula carpatica* (Hare Bell)
 S. *Centaurea candidissima* (Dusty Miller)
 S. P. *Cerastium tomentosum* (Snow in the Summer)

S. *Centaurea gymnocarpa*
 P. *Euonymus radicans*.
 P. Ferns, Hardy varieties.
 S. P. *Gnaphalium* (Edelweiss)
 S. *Gypsophila elegans*.
 S. P. *Gypsophila paniculata* (Baby's Breath)
 P. *Helianthemum* (Rock Rose)
 S. *Mesembrianthemum* (Ice Plant)
 S. P. *Myosotis* (Forget-me-not)
 P. *Plumbago larpentae* (Leadwort)
 P. *Phlox subulata* (Moss Pink)
 S. *Portulaca*.
 S. P. *Sedum* (Stone Crop)
 S. *Silene* (Catchfly)
 S. P. *Vinca* (Periwinkle)



A Rock Garden planted in this fashion makes a dull spot bright

FLOWERING PLANTS FOR CUTTING AND OPEN BORDER PLANTING

ANNUALS

S. P. *Antirrhinum* (Snapdragon)
 S. *Arctotis* (African Daisy)
 S. P. *Asters*
 S. *Calliopsis*
 S. *Centaurea* (Cornflower)
 S. *Candytuft*
 S. *Celosia plumosa* (Cockcomb)
 S. P. *Cosmos*
 S. *Chrysanthemum tricolor*
 S. " *coronarum*
 S. *Dimorphotheca*
 S. *Gaillardia* (Blanket Flower)
 S. *Gypsophila elegans*
 S. *Gomphrena*
 S. *Larkspur*
 S. *Lupinus*
 S. *Marigold*
 S. P. *Mignonette*
 S. *Nasturtium*
 S. P. *Pinks*
 S. *Salpiglossis*
 S. *Scabiosa*
 S. *Stocks*
 S. *Sunflower*
 S. *Sweet Peas*
 S. *Sweet Sultan*
 S. *Zinnia*

PERENNIALS

S. P. *Aquilegia* (Columbine)
 S. P. *Achillea* (Sneezewort)
 S. P. *Anthemis* (Marguerite)
 S. P. *Anemone* (Windflower)
 P. *Artemisia lactiflora*
 S. P. *Aster*, Hardy Perennial
 S. P. *Boltonia* (False Chamomile)
 S. P. *Coreopsis*
 S. P. *Carnation*
 S. P. *Delphinium*
 S. P. *Eupatorium*
 S. P. *Gaillardia grandiflora*
 S. P. *Gypsophila paniculata*
 S. P. *Geum*
 S. P. *Heliopsis*
 S. P. *Heuchera* (Alum Root)
 S. P. *Lily of the Valley*
 S. P. *Lupinus*
 S. P. *Phlox decussata*
 S. P. *Paris Daisy*
 S. P. *Pentstemon*
 S. P. *Pinks*
 S. P. *Rudbeckia*
 S. P. *Shasta Daisy*
 S. P. *Stokesia*
 S. P. *Statice*
 S. P. *Stevia*
 P. *Thalictrum*



Borders on the edges of lawns planted in this fashion are an attraction from early Spring to Fall

For Common and Botanical Names of Popular Flowers and Plants see page 113.

A number of Plants, which are grown from Bulbs, produce splendid cut flowers, especially: *Gladiolus*, *Dahlias*, *Acid-anthera*, *Callas* and *Tuberoses*.

FLOWERS AND PLANTS FOR PARTIALLY SHADED LOCATIONS

Very few plants will flower in places, from which sunshine is entirely excluded. They may grow well enough, developing leaves, but *plants* of nearly all kinds must have at least some sunshine. With the exception of Hardy Ferns, which will do very well even in dense shade, the varieties named below should have sunlight for at least 2 hours during the day, to produce best results.

S. P. *Aconitum* (Monks Hood)
 S. P. *Anemone* (Windflower)
 S. P. *Aquilegia* (Columbine)
 S. P. *Auricula*
 S. *Asperula* (Woodruff)
 S. *Bartonia*
 S. P. *Begonia*, Tuberous-rooted (Can be furnished in Bulbs also)
 S. P. *Bellis* (Daisy)
 S. P. *Campanula* (Canterbury Bells)
 S. *Clarkia*
 S. P. *Coreopsis lanceolata*
 S. P. *Cowslip*
 S. P. *Delphinium* (Larkspur)
 S. P. *Digitalis* (Foxglove)
 P. Ferns (Hardy)
 S. P. *Fuchsia*
 S. P. *Gentiana* (Gentian)
 S. P. *Lily of the Valley*

S. P. *Lobelia Cardinalis* (Cardinal Flower)
 S. *Linum* (Flax)
 S. *Matricaria* (Feverfew)
 S. *Mimulus* (Musk Plant)
 S. P. *Myosotis* (Forget-me-not)
 S. *Nemophila* (Love Grove)
 S. *Oenothera* (Evening Primrose)
 P. *Pachysandra*
 S. P. *Pansies*
 S. P. *Poppy* (Perennial varieties)
 S. P. *Polyanthus*
 S. *Schizanthus* (Butterfly-Flower)
 P. *Trollius* (Globe Flower)
 P. *Trillium* (Wood Lily)
 S. *Torenia*
 S. P. *Violets*
 S. P. *Viola cornuta* (Tufted Pansies)
 (ho)



Plantings against shaded backgrounds like this accomplish wonderful effects

66 Novelties and Specialties in Flower Seeds for 1916

FOR GENERAL LIST OF FLOWER SEEDS, SEE PAGES 73 TO 112

DWARF ALYSSUM

"LILAC QUEEN"

A distinct new variety of the annual Sweet Alyssum, with **pure lilac flowers**. The plants are of the same dwarf compact growth as the dwarf white flowering varieties. Per pkt., 15c.; 40c. per large pkt.

DWARF YELLOW ALYSSUM

Compactum Lutescens

Similar in growth and habit to the Lilac Queen described above, but with **yellow flowers**. Per pkt., 15c.; 40c. per large pkt.

NEW SEMI DWARF ANTIRRHINUMS

This type is becoming very popular for bedding purposes owing to their dwarf and compact habit of growth; height about 18 inches.

Captivation A charming rich chamois shaded pink, a unique color. Flowers large; free bloomer.

Per pkt., 30c.; 85c. per 3 pkts.

Cerise King Cerise pink, white throat and white lip; flowers very large and borne on long, robust spikes.

Per pkt., 20c.; 55c. per 3 pkts.

Golden Beauty Very large, rich golden yellow flowers; plants of good habit, with long, sturdy spikes.

Per pkt., 20c.; 55c. per 3 pkts.

Pink Beauty A deep rose pink self, enormous spikes of flowers; individual blooms exceptionally large; a vigorous grower.

Per pkt., 20c.; 55c. per 3 pkts.

Spitfire A very bright orange scarlet self, the brightest color in this class yet offered; plants are of compact habit, and free flowering.

Per pkt., 30c.; 85c. per 3 pkts.

The Bride Pure white, without any yellow on lip.

Per pkt., 10c.; 25c. per 3 pkts.

Special Offer: One packet each of the above six varieties Semi Dwarf Antirrhinums for \$1.15.



MICHELL

Michell's Giant Antirrhinum

NEW GIANT SNAPDRAGON

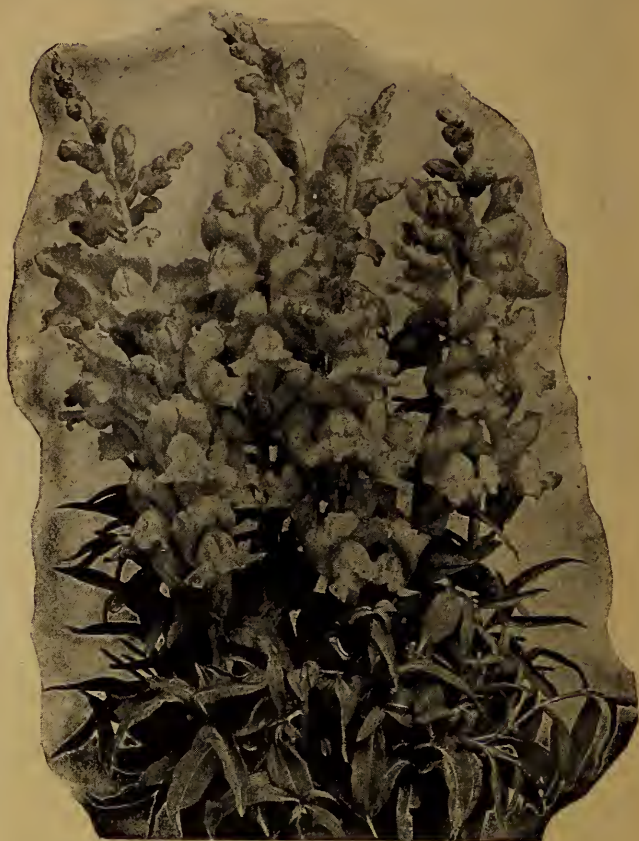
(Antirrhinum)

MICHELL'S SALMON PINK

For effective grouping in the garden or for cutting, nothing surpasses the Giant Snapdragons, and we are pleased to be able to offer our customers seed of this new variety, which will be found a valuable addition to this class of flowers. **The large flowers are produced on long spikes** and are of a **delicate salmon pink color**. Per pkt., 15c.; 40c. per large pkt.

ASTER—VICK'S AUTUMN GLORY

A new, very late branching Aster; plants are of strong growth, flowers large, double and of good substance; color, a pure, sea-shell pink. Its most distinctive characteristic and chief claim for recognition, however, is the fact that it blooms later in the season than any of the other varieties. Per pkt., 20c.; 35c. per 2 pkts.



Antirrhinum—Spitfire



Aster—Autumn Glory



Michell's Pink Superb Aster

NEW ASTER—MICHELL'S "PINK SUPERB"

This new and valuable variety of Aster is really "Superb" in every sense of the word. The flowers are of immense size, petals long and broad, those in the centre lie curled and incurved to such an extent that the crown is completely covered; the general appearance of the flower being that of an immense flat Chrysanthemum; color, a beautiful light, or shell pink. One of the admirable features of this new variety is the exceedingly long stems, which usually measure 34 to 36 inches in length, making it a valuable sort for cutting. Per pkt., 25c.; 65c. per large pkt.

BEGONIA—"GROMANII"

A new variety originating in Michigan; we quote the description as given us by the originator: "A great improvement on Begonia Vernon; foliage, a beautiful bronze green, color of flowers, red (very near Christmas red). We have been selecting the best plant for seed for ten years and feel confident that we have the color fixed, so that every plant will produce red flowers." Per original pkt., \$1.00.

THE CARDINAL CLIMBER

(*Ipomoea Quamoclit Hybrida*)

A distinct and valuable novelty and one of the most beautiful climbers. A **strong and very rapid grower** and **free bloomer**; the vines branch freely, covering a large space very quickly and growing to a height of 20 to 30 feet. Leaves dark green, fern-like and deeply lacinated; bears a great profusion of **fiery, cardinal red** flowers, which are about 1½ inches in diameter. It delights in a warm, sunny situation and good soil. The seed should be soaked in water a few hours before sowing. Per pkt., 15c.; 25c. per 2 pkts.



Artemisia or Summer Fir

ARTEMISIA SACRORUM VIRIDIS (Summer Fir)

This new ornamental foliage plant from China is an annual of very quick growth; pyramidal bushes, 3 to 5 feet high; may be grown in groups and borders; also pretty as a pot plant; foliage fine, and of a rich dark green; cut branches last a long while after being cut and can be used for decorations, etc. Per pkt., 15c.; 30c. per large pkt.

Special Offer: One packet each, Aster, Artemisia and Cardinal Climber for 50c.



Cardinal Climber

See pages 76 to 78 for other valuable varieties of Asters



Celosia—Pride of Castle Gould

CELOSIA—OSTRICH PLUME Pride of Castle Gould

This variety excels all other varieties of this class; plants grow compact and pyramidal, about 2 to 3 feet high, producing immense flower heads, that closely resemble ostrich plumes. Colors are blood red, carmine, yellow, orange, golden, orange scarlet, etc., in **mixture**. Per pkt., 15c.; 40c. per large pkt.



Dimorphotheca aurantiaca hybrida fl. pl.

NEW DOUBLE AFRICAN DAISY

(*Dimorphotheca Aurantiaca Hybrid fl. pl.*)

A new addition to this popular flower recently introduced; produces an abundance of **double** and **semi-double** flowers in many **rich** and **varied** shades, ranging from **white** to **light** and **dark yellow**, and from **salmon rose** to **orange**. Per pkt., 20c.; 50c. per large pkt.

LOBELIA HYBRIDA—"SAPPHIRE"

Great attention has been given of late years to the floral decoration of balconies and window fronts, and in addition to Petunias, Ivy-leaved Geraniums, etc., used for this purpose, trailing Lobelias are also coming into demand. This new variety is of remarkably **strong growth**; the flowers are unusually large for a Lobelia, measuring **three-quarter inch across**, and are thickly set on the long graceful sprays of foliage; color of flowers, **intense deep blue** with **large, clearly defined white eye**. A well-grown plant covered with these lovely blue oculate flowers makes a splendid sight. Per pkt., 20c.; 50c. per large pkt.



Double Cosmos

NEW DOUBLE COSMOS

These beautiful new Cosmos are most striking in color and appearance; a large percentage come true from seed, both as to color and doubleness; as there is no pollen to scatter, this removes one of the objections to the Cosmos as a cut flower.

Pink Beauty. Per pkt., 60c.

White Queen. Per pkt., 60c.



Lobelia—Sapphire



Double Morning Glory—Snow Fairy

NEW DOUBLE MORNING GLORY "SNOW FAIRY"

A new and most beautiful variety of vigorous and rapid growth, beginning to bloom early and continuing until frost. Produces an abundance of **double, snow-white, tassel-like flowers** two to two and a half inches across by two and a half inches in depth. Per pkt., 15c.; 25c. per 2 pkts.

NEW LARGE FLOWERING PETUNIA MICHELL'S MONSTROSUS

A great acquisition to the list of Large Flowering Petunias, surpassing the well-known Giants of California. The flowers are extremely large, quite a number of which are elegantly fringed; the colorings, markings, veinings, blotches, etc., are superb; many of them having deep throats of various shades. Per pkt., 25c.; 75c. per large pkt.

NEW BLUE PETUNIA "UNDINE"

A new light blue Petunia of incomparable beauty and luxuriance, and therefore very valuable as a pot plant, as well as for garden beds; also valuable for window boxes, etc. The surpassing charm of this variety lies in the particular **azure color** which merges into the **lilac margin**. Per pkt., 25c.; 65c. per 3 pkts.

PENTSTEMON

LARGE FLOWERING WHITE (*Pentstemon Hartwegi Albus*)

The plants of this fine new variety attain a height of about 2½ feet; they branch freely from the base, develop a brilliant green foliage and throw up numerous flower-spikes, all thickly studded with **large open-throated gloxinia-like blooms**, one to one and one-half inches across; the buds at first are of a creamy color, but change to a clear white when opening. It blooms early and continues to bloom for a long time. Per pkt., 15c.; 40c. per large pkt.

NEW PETUNIA "INFLATA"

A small, but very profuse flowering, well-shaped, trailing Petunia, producing branches 2½ to 3 feet in length, thickly set with **fragrant flowers**, 1 inch across, of a lovely purplish carmine color with reddish violet throat. Especially valuable for balconies, window boxes or hanging baskets. Per pkt., 15c.; 40c. per large pkt.



Pentstemon Hartwegi Albus

Special Offer.—One pkt. each of the five Novelties and Specialties, described on this page, for 85c.



MICHELL

Petunia—Michell's Monstrosus

70 Michell's Novelties and Specialties in Flower Seeds



Petunia—Dwarf Large Flowering Fringed

DWARF LARGE FLOWERING FRINGED PETUNIA

The demand for really good dwarf, compact-growing Petunias has been met after years of careful selection in this excellent dwarf strain, with **large fringed flowers**. The plants grow only **8 inches high**, and while branching freely from the base, they remain quite compact. The individual plants make handsome small bushes, on which the numerous flowers, borne well above the foliage, appear in **all the colors common to Petunias**. Per pkt., 30c.; 80c. per 3 pkts.



Primula Malacoides Superba

NEW SALVIA (Scarlet Sage)

BEDMAN'S OSTRICH PLUME

A new variety of this most popular flower. The habit of the plant is similar to the well-known Splendens variety; the **spikes of flowers**, which are **large and borne in great profusion, resemble a plume**, and are of the **brightest scarlet**. Per pkt., 25c.; 65c. per large pkt.

SCHIZANTHUS, "BRIDAL VEIL"

A new variety selected from the hybrids of Schizanthus Wisetonensis. Plants grow about 16 inches high, are compactly formed and **literally covered with glistening, snowy white blossoms**, which present a striking contrast with the bright fresh green of the **finely laciniated foliage**. Excellent as a pot plant. Per pkt., 25c.; 65c. per 3 pkts.

SCHIZANTHUS, GRANDIFLORUS MAXIMUS

Plants grow about 20 inches high, and produce an abundance of flowers of good substance, measuring from 1 to 1½ inches across, and **show an endless variety of color**. The foliage is bright green, fern-like, and very handsome. Per pkt., 20c.; 55c. per 3 pkts.



Petunia—Ideal

LARGE FLOWERING DWARF PETUNIA, "IDEAL"

A magnificent new dwarf strain of large flowered Petunia. The plants, which are of **strong, robust growth**, are 12 to 15 inches in height, and produce **enormous flowers**, many of which **measure 6 inches across**, and of **varied and exquisite coloring**. An ideal pot plant. Per pkt., 30c.; 80c. per 3 pkts.

PRIMULA "MALACOIDES SUPERBA"

A new and improved variety of the Primula Malacoides which has become so popular within the last two or three years; the flowers of this new variety are larger and deeper in color, being a deep rosy pink. A first-class plant for greenhouse decoration during the winter. Per pkt., 30c.; 80c. per 3 pkts.

PRIMULA "MALACOIDES ROSEA"

A new color added to this popular variety of Primula; the flowers vary in color from light rose to bright carmine rose. Per pkt., 20c.; 65c. per large pkt.

New Spencer or Orchid Sweet Peas⁷¹

"Spencer" Sweet Peas are distinguished by their most exquisite form of flower, waved petals, their wonderful vigor in plant, stem and flower, and their ability to produce, as a rule, four gigantic blooms to the stem.

FOR GENERAL LIST AND SPECIAL MIXTURE, SEE PAGE 108

Fiery Cross "Fiery Cross" is a most appropriate name for a most unusual novelty. "Fiery Cross" has all the appearance of live fire, the color being a scorching fire-red, or scarlet, without any shading and which scintillates and glitters in bright sunlight, thus adding a glowing, fire-like sheen which radiates over the flower. Unlike most of the orange-scarlet varieties, it does not scorch or burn even during extended periods of intense sunshine, therefore it can be grown in all soils without shading. The beautifully waved and fluted flowers are borne freely in threes and fours, well placed on long stout stems. **Fiery Cross** was recommended for the Silver Medal variety of the National Sweet Pea Society of England. Also Award of Merit at the exhibition held by the American Sweet Pea Society at the San Francisco Fair, June 10th, 1915, as being the outstanding variety in the show.

Original pkts (10 seeds), 25c.; 65c. per 3 pkts.

The President This will compete with "Fiery Cross" as the greatest novelty of the year. It is wonderfully brilliant, in fact, it might be termed a glowing scarlet self. The flowers are of large size, carried on strong, stiff stems, usually in fours, always beautifully waved even when well expanded, and most harmoniously placed. It has been termed "the brightest color we have in sweet peas" and does not burn; it probably will never be surpassed in the orange-scarlet section. Awarded Certificate of Merit by the Pennsylvania Horticultural Society, June 23d, 1915, also by the American Sweet Pea Society at Newport, R. I., July 15th, 1915.

Original pkts (10 seeds), 25c.; 65c. per 3 pkts.

Hilary Christie Standard salmon-orange edged with fiery orange-scarlet; wings rosy-salmon; most decorative; strong grower, good size and form.

Original pkts. (10 seeds), 15c.; 25c. per 2 pkts.

Original pkts. (20 seeds), 25c.; 65c. per 3 pkts.

King White A "perfect" white Spencer Sweet Pea, and much superior in form, size and substance to all others of this color. Whereas the petals of other white Spencers are thin and the standards generally inclined to reflex, King White has a substance to spare, while the standards are of immense size, bold expanded form, yet exquisitely waved. It is an extremely vigorous grower, very floriferous and gives a large proportion of four-flowered sprays. It received an Award of Merit from the National Sweet Pea Society of England, July, 1912. It was also awarded a Certificate of Merit by the Pennsylvania Horticultural Society at the Sweet Pea Show in Philadelphia, June 26th, 1913, and also by The Royal Horticultural Society of England, July, 1913.

Per pkt., 15c.; 60c. per oz.; per ¼ lb., \$2.00.

Illuminator The most charming color, or rather combination of colors, yet seen in Sweet Peas, and very difficult to describe. The name conveys in part one of the charms of this beautiful variety, as the warm salmon-orange ground color of the flower scintillates through the rich, bright cerise-pink and illuminates the flower delightfully. Illuminator is of strong, vigorous growth and blooms most profusely. The flowers, well placed upon long, stout stems, are uniformly of great substance, the standard being bold, expanded and attractively waved. Awarded Certificate of Merit by the Pennsylvania Horticultural Society, Philadelphia, June 26th, 1913.

Per pkt., 10c.; 60c. per oz.; per ¼ lb., \$2.00.



New Spencer Sweet Pea—Fiery Cross

Margaret Atlee One of the largest and finest Sweet Peas yet introduced. The flowers are of immense size, often measuring two and one-half inches across the standard, exquisitely waved and freely produced in "fours" on long, stout stems; color, a rich glowing pink on cream ground, softly suffused with salmon in the standard, while the wings are a pleasing shade of pinkish rose and salmon.

Per pkt., 15c.; 60c. per oz.; per ¼ lb., \$1.75.

Wedgwood This new variety is appropriately named, as its color throughout is a unique shade of Wedgwood blue,—a color so popular in China and destined now to become almost equally famous in this distinct new Sweet Pea. Wedgwood produces profusely flowers of good size, borne almost uniformly in four-flowered sprays, well placed upon long stout stems. Of finest Spencer form, the standard and wings are well waved.

Per pkt., 10c.; 50c. per oz.; per ¼ lb., \$1.50.

SPECIAL OFFER.—One packet each of the 7 varieties of New Spencer Sweet Peas offered on this page for \$1.00.

72 Michell's Novelties and Specialties in Flower Seeds



New Red Sunflower

NEW RED SUNFLOWER (HELIANTHUS)

A new and brilliant variety of the annual Sunflower, growing from 4 to 8 feet high. The plants are of branching habit and produce from July to September a profusion of well-shaped flowers, varying in size from a few inches to nearly a foot in diameter. Some of the plants produce flowers of a **rich chestnut-red** color, others **tipped with yellow**, and others slightly washed with red. A hedge or border of this variety is especially interesting and attractive. Per pkt., 15c.; 40c. per large pkt.

NEW GIANT FLOWERED VERBENAS IN DISTINCTLY NEW COLORS

This new variety is not only distinguished by its **giant blooms**, made attractive through a **light-colored centre** and an exquisite **edge of silvery white**, but an entirely **new range of colors**, such as Tyrian Rose, Purple, Garnet, Turkey Red, Geranium Red, Rosy Scarlet, etc. Each flower has a large white eye.

Mixed Colors. Per pkt., 15c.; 65c. per large pkt.

NEW DWARF VERBENA "Dornroschen"

A new variety of **dwarf compact growth**, especially valuable for planting for low groups or for borders. Bears a great profusion of **large flowers**; color, **white with soft carmine rose edge**, giving to the plant a particularly nice aspect. Per pkt., 20c.; 55c. per 3 pkts.

VERBENA—"Helen Willmott"

After many years of constant selection, seed of this Verbena has at last been saved in sufficient quantity to be offered for sale. A large percentage of the flowers are of the true "Helen Willmott" color, a **pretty bright salmon rose**, with **white eye**.

Per pkt., 20c.; 55c. per 3 pkts.

Special Offer: One packet each Verbena Dornroschen, Helen Willmott, and Giant Flowering Mixed, Sunflower, Viola G. Wermig, Zinnia Isabella and Robusta Mixed for \$1.00.

VIOLA CORNUTA—"G. Wermig"

A new variety introduced from England, which flowers continuously all summer, and on account of its many good qualities it is one of the most popular both in England and Germany. The flowers of this variety have the **identical color of the Violet, "Princess of Wales"**; are borne on long stems in great profusion and can be used as a substitute for Violets. Pkt., 20c.; 55c. per 3 pkts.

NEW GIANT ROBUSTA ZINNIAS

This new form is a wonderful advance in size and shape and gives the plant a most majestic appearance. The plants grow extremely robust to a height of 2½ feet, have stout straight stems dressed with large broad foliage and crowned with **gigantic perfectly double flowers often measuring 5 to 6 inches across**; a revelation to all who are accustomed to the common Zinnia. Splendid for cutting or garden effect.

	Oz	Large pkt.	Pkt
Scarlet	\$2.00	\$0.50	\$0.15
White	2.00	.50	.15
Golden Yellow	2.00	.50	.15
Crimson	2.00	.50	.15
Flesh Color	2.00	.50	.15
Purple	2.00	.50	.15
Sulphur Yellow	2.00	.50	.15
Violet	2.00	.50	.15
Mixed .....	.90	.25	.10

Special Offer: One pkt. each of the above 8 separate colors for \$1.00.

NEW GIANT ZINNIA "Isabella"

This is of the same habit and large size as the Giant Zinnias described above; color, **delicate buff, shaded yellow**. Per pkt., 15c.; 50c. per large pkt.



Verbena Hybrid Compacta—Dornroschen

MICHELL'S "DISTINCTIVE"

FRESH TESTED

FLOWER SEEDS

Our flower seeds have a reputation for their *superior quality* and for the *excellent results* obtained by sowing them. It is our constant endeavor to supply only such *varieties and strains* that will give the best of satisfaction.

Throughout the following pages of Flower Seeds the different varieties are designated as Annuals, Biennials, Perennials, etc., and for the benefit of those who are not familiar with these terms, we wish to make the following brief explanation:

Annuals. These grow and bloom, mature their seed and then die in the same year, such as Asters, Balsams, Poppies, Sweet Peas, Morning Glories, etc., some of which may be sown in the house from March to May, or outdoors after danger from frost is over.

Biennials. These grow from seed sown during mid-summer, flowering the second year, after which they die; many of the varieties bloom the first season if sown early. In this class we have Pansies, English Daisies, Campanula Medium, Dianthus, etc.

Perennials. Those which live from year to year, such as Aquilegia, Delphinium, Foxgloves, etc. Seed may be sown outdoors from June to September and transplanted late in fall into their permanent quarters, and protected during winter with a light litter of straw or leaves. The hardy perennials not usually needing any protection after the first winter; the half-hardy perennials require protection during the winter, and the tender perennials during the winter require greenhouse protection.

A COMPLETE INDEX OF FLOWER SEEDS WILL BE FOUND ON THE LAST TWO PAGES OF CATALOGUE. FOR NOVELTIES, SEE PAGES 66 TO 72.

ABUTILON (Chinese Bell Flower)

Choice Mixed. Used extensively for ornamental bedding, also valuable for flowering indoors during the winter; seed should be started in heat from January till March; foliage is of maple form and has variegated coloring; flowers bell-shaped; height, 3 feet.....\$0.40 \$0.10

ACHILLEA (Millefolium or Yarrow)

Parmica, Fl. Pl., "The Pearl." Tall erect plant bearing its pure white double flowers in great profusion all summer; hardy perennial; flowering the first season if seed is sown early; 2 feet. .30 .10

ACONITUM (Monk's Head or Helmet Flower)

Hardy perennial, thriving best in semi-shady situations; curious hood-shaped flowers in clusters; height, 4 feet; August-September.

	Large pkt.	Pkt.
Napellus, Blue	\$0.25	\$0.05
Napellus, White .....	.40	.05

ACROCLINIUM (Everlasting Flower)

Showy, free-flowering annual plants; the flowers should be picked before they expand and hung with the tops downward to dry; 1 foot.

	Large pkt.	Pkt.
Single Mixed	\$0.15	\$0.05
Double Mixed .....	.15	.05

ADLUMIA (Mountain Fringe or Allegheny Vine)

Cirrhusa. A charming hardy biennial climber, blooming the first season; delicate, feathery foliage, rose-colored flowers; 15 feet..... .40 .10

ADONIS

Aestivalis (Flos Adonis or Pheasant's Eye). Hardy annual; pretty fine cut foliage and dark crimson flowers; height, 1 foot..... .15 .05

Vernalis (Or Eye). One of the choicest spring flowering perennial plants; finely cut, ornamental foliage, yellow flowers; 1 foot..... .15 .05

AGROSTEMMA

Coronaria (Mullein Pink). Stout erect growing plants with silvery foliage and bright crimson flowers; hardy perennial; 2½ to 3 feet; July and August



Ageratum, Blue Perfection

AGERATUM (Floss Flower)

An excellent plant for edging or solid effects. For early bloom sow indoors from March till May; sown outdoors in May will flower in August. A continuous bloomer.

	Large pkt	Pkt.
Blue Perfection. Large heads of deep blue flowers produced in abundance; 15 inches.....	\$0.20	\$0.10
Little Blue Star. Exceedingly dwarf and pretty; plants densely covered with bright blue flowers; height, 5 inches.....	.50	.15
Imperial Dwarf Blue. A compact growing plant; height, 9 inches.....	.15	.05
Imperial Dwarf White .....	.15	.05
Imperial Dwarf Mixed .....	.15	.05
Cope's Pet. Azure blue, 6 inches.....	.20	.10
Princess Victoria Louise. Light blue, white eye. ....	.20	.10
Grandiflorum Album. Extreme large flowers of purest white; height, 1 foot.....	.15	.10

*Alyssum, Little Gem***ALYSSUM**

One of the most popular garden flowers; remaining in bloom the entire season; used for edging or in rockeries or vases.

	Large pkt.	Pkt.
Little Gem. Dwarf compact plants, densely covered with large pure white flowers; height, 4 inches	oz., 75c.	\$0.20 \$0.05
Little Dorritt. Extremely dwarf and compact, forming perfect little bushes with miniature white flowers; ideal for narrow edges..oz., \$1.00		.20 .05
Lilac Queen. A new annual variety of dwarf compact growth, with flowers of a pure lilac color; 4 inches .....		.40 .15
Lutescens (New). Of dwarf, compact habit, with yellow flowers; annual; 4 inches.....		.40 .15
Sweet. The popular old-fashioned sort, the best for broad edges and vases. Pure white; height, 6 inches	oz., 25c.	.15 .05
Saxatile Compactum (Basket of Gold). An ideal hardy perennial plant for the spring garden, flowering in May; silvery foliage with showy golden yellow flowers; blooms the first season if sown early indoors; 1 foot.....oz., 50c.		.15 .05

AMARANTHUS

Decorative foliage plants, easily raised from seed, either by starting them early indoors or sown outdoors in May.

	Large pkt.	Pkt.
Caudatus (Love Lies Bleeding). Drooping crimson racemes	\$0.15	\$0.05
Sunrise. Bronzy crimson foliage shading off to bright scarlet leaves toward top of stalks.....	.20	.10
Tricolor Splendens (Joseph's Coat). Leaves red, yellow and green .....	.20	.05
Mixed. All sorts .....	.15	.05

AMPELOPSIS (Boston or Japanese Ivy)

Veitchi. A hardy perennial climber from Japan, with olive-green leaves, which turn to scarlet in the autumn; one of the best hardy vines for covering brick or stone buildings.....oz., 40c. .15 .10

ANCHUSA (Sea Bugloss)

Italica "Dropmore." A strong growing hardy perennial plant, 4 feet high, with beautiful flowers of a lovely gentian blue..... .40 .15

ANEMONE (Wind Flower)

A dainty spring flower with bright cup-shaped blossoms; splendid for cutting; perennial.

Coronaria Mixed. All colors; 1 foot.....Large pkt. Pkt.
\$0.20 \$0.05

St. Brigid, or Poppy. Flowers large, semi-double and double; 1 foot..... .40 .15

ANTHEMIS (Hardy Marguerite)

Tinctoria Kelwayi. A handsome hardy perennial, bearing all summer, daisy-like bright yellow flowers; 2 feetLarge pkt. Pkt.
..15 .10

ANTIRRHINUM (Snapdragon)

A splendid plant for beds or borders and one of our choicest cut flowers; extensively forced under glass during the winter. To have flowers early sow indoors during February or March, but even if sown outdoors in May it will flower profusely in September.

MICHELL'S GIANT ANTIRRHINUMS

This strain produces stout heavy spikes, 2 to 3 feet in length, dressed with giant flowers of the purest colors.

Michell's Giant Salmon Pink. A valuable addition to this popular flower; long spikes of a delicate salmon pink color.....Large pkt. Pkt.
..40 .15

Silver Pink. A fine variety; long spikes and a profuse bloomer. Original pkt., \$1.00.

Giant Pink. Pkt., 10c.; 25c. large pkt.

Giant Scarlet. Pkt., 10c.; 25c. large pkt.

Giant Striped. Pkt., 10c.; 25c. large pkt.

Giant White. Pkt., 10c.; 25c. large pkt.

Giant Yellow. Pkt., 10c.; 25c. large pkt.

Giant Mixed. All colors. Pkt., 10c.; 20c. large pkt.

Giant Double White. Pkt., 15c.; 40c. large pkt.

Giant Venus. Shell pink on white ground. Pkt., 15c.; 40c. large pkt.

Tall Mixed. A fine selection. Pkt., 5c.; 15c. large pkt.; oz., 40c.

Imported Collection, 10 Tall Varieties. 40c.

SEMI-DWARF**ANTIRRHINUMS**

The plants grow but 18 in. high, but have extreme large flowers over most part of the stem.

Daphne. Carmine pink, white throat. Pkt., 10c.; 25c. large pkt.

Defiance. Fiery scarlet. Pkt., 10c.; 25c. large pkt.

Golden Queen. Golden yellow, giant flowers. Pkt., 10c.; 25c. large pkt.

Queen of the North. Of purest white. Pkt., 10c.; 25c. large pkt.

Mixed. All colors. Pkt., 10c.; 20c. large pkt.

Imported Collection, 10 Semi-Dwarf Varieties. 40c.

DWARF ANTIRRHINUMS

The Dwarf or Tom Thumb varieties are excellent for bedding; also for edges. Height, 12 inches.

Tom Thumb Mixed. All colors. Pkt., 10c.; 25c. large pkt.



MICHELL

Giant Antirrhinum (Snapdragon)



Aquilegia Columbine

AQUILEGIAS OR COLUMBINES

These are among the most beautiful of spring and early summer flowers; very effective when grown in the herbaceous border and groups among shrubbery. Graceful spurred flowers on stems 2 feet or more above the foliage.

	Large pkt.	Pkt.
Long Spurred Hybrids. Flowers of many rich and varied colors, with long spurs.....	\$0.40	\$0.10
Canadensis. Scarlet and yellow.....	.40	.05
Chrysantha. Bright golden yellow.....	.40	.10
Chrysantha Alba. Purest white.....	.40	.10
Californica Hybrida. Mixed colors; long spurs..	.40	.10
Coerulea (<i>Rocky Mountain Columbine</i>). Large flowers, violet, blue and white.....	.40	.10
Flabellata Nana Alba. A dwarf variety, with fine glaucous foliage and large white flowers.....	.30	.10
Glandulosa Vera. Lavender and white.....	.50	.25
Haylodgensis Delicatissima. Satiny rose.....	.50	.20
Nivea Grandiflora. Pure white.....	.15	.05
Rose Queen. Pink, white centre.....	.50	.15
Single Mixed	Oz., 35c. .15	.05
Double Mixed	Oz., 40c. .15	.05

ARABIS (Rock Cress)

Alpina. Early spring flowering plant especially adapted for edging and rockery; plants form a dense carpet completely covered with pure white blossoms; perennial; May; 6 inches.....

ARCTOTIS (African Daisy)

Grandis. Bushy annual plants, producing the entire season, on long stems, large daisy-like flowers, pure white on the upper surface, the reverse side of petals lilac-blue; 2 feet.....

IMPORTED COLLECTIONS OF CHOICE FLOWER SEEDS

Collection of Annuals.	Containing 8 distinct sorts.	\$0.35
Collection of Annuals.	" 12 distinct sorts.	.50
Collection of Annuals.	" 18 distinct sorts.	.75
Collection of Annuals.	" 24 distinct sorts.	1.00
Collection of Perennials.	" 12 distinct sorts.	.40
Collection of Perennials.	" 25 distinct sorts.	.75

ARGEMONE (Mexican or Prickly Poppy)

Hybrida Grandiflora. Easily grown showy annuals; branching plants about 3 feet high, with large single Poppy-like flowers, in various shades from rich yellow to creamy white. Pkt., 10c.; 20c. per large pkt.

ARMERIA (Sea Pink or Thrift)

Formosa. A pretty hardy perennial for edgings; blooming all summer; rosy pink flowers; 9 inches. Pkt., 10c.; 20c. per large pkt.

ARTEMISIA

Sacrorum Viridis (*Summer Fir*). A new ornamental foliage plant from China; pyramidal bushes 3 to 5 feet high; may be grown in groups and borders; also pretty as a pot plant; foliage fine and of a rich dark green. Per pkt., 15c.; 30c. per large pkt.

ARUNDO, (*Ornamental Grass*) See page 90

See page 153 for
AQUILEGIA PLANTS



Artemisia, Sacrorum Viridis

ASPARAGUS

100 Seeds Pkt.

Hatcheri. Of dense and symmetrical growth; dainty fern-like fronds set close together along the stalk; valuable for decorative use, also for specimen pot plants.....

Plumosus Nanus. An excellent plant for house or conservatory decoration or cutting on account of its graceful, finely cut foliage; will remain fresh a long time after being cut.....

Lutzi (*New*). Shoots are thornless, straight and erect; foliage light green; produces pure white flowers

Sprengeri. One of the best plants to grow in hanging baskets or window boxes for the greenhouse in winter or for outdoors in the summer.

ASPERULA (Woodruff)

Odorata. Dwarf spring flowers of purest white, thrives in shady situations; perennial; 1 foot; May



Arctotis Grandis



MICHELL'S SUPERB ASTERS

We can imagine no other flower which combines so much beauty with grace and usefulness and with which more brilliant effects can be achieved. From July till September this flower reigns supreme in the garden, not equaled by any other. For these obvious reasons we give, perhaps, more attention to these flowers than any other and are in position to offer our patrons remarkably fine strains, producing perfect flowers of great beauty. Many of the strains we offer are grown under our own supervision by specialists in this country, others are imported from most reliable sources. To have early flowers sow the seed in the house from March till May; otherwise sow outdoors after danger from frost has passed. To do well Asters require a well pulverized soil, always kept open by continuous cultivation.



Pink Superb Aster

NEW ASTER MICHELL'S PINK SUPERB

269 We are pleased to be able to again offer to our customers this new and valuable variety of Aster, which is really "Superb" in every sense of the word. The flowers are of immense size, petals long and broad, those in the centre lie curled and incurved to such an extent that the crown is completely covered; the general appearance of the flower being that of an immense flat Chrysanthemum; color, a beautiful light, or shell pink. One of the admirable features of this new variety is the exceedingly long stems, which usually measure 34 to 36 inches in length, making it a valuable sort for cutting. Per pkt., 25c.; 65c. per large pkt.; per 1/4 oz., \$2.00; \$7.50 per oz.

ASTERMUM

A new and valuable variety of Aster; plants grow straight up with strong sturdy stems, starting near the base, and owing to the symmetry of the plant, they may be set more closely than other varieties. Each plant yields from ten to fifteen blooms, which last a long while after being cut.

		Large pkt.	Pkt.
Lavender	1/4 oz., \$1.00	\$0.65	\$0.15
Rose Pink	1/4 oz., 1.00	.65	.15
Shell Pink	1/4 oz., 1.00	.65	.15
White	1/4 oz., 1.00	.65	.15
Mixed	1/4 oz., 1.00	.65	.15

EARLY WONDER ASTER

The earliest variety in cultivation, coming into bloom several days before "Queen of the Market." The form is that of "Giant Comet" type; the flowers are large and very double; stems average 18 inches in length.

	Oz.	Large pkt.	Pkt.
228 White	\$3.00	\$0.50	\$0.10
227 Pink	3.00	.50	.10

Ask for Cultural Leaflet No. 202 on the Growing of Asters.

LADY ROOSEVELT ASTER

251 The flowers resemble huge incurved Chrysanthemums; the color is a gorgeous pink, of marvelous beauty. The robust plants produce stout stems invariably 40 inches long, crowned with gigantic flowers. The seed we offer is selected from original specimens and then re-cleaned; so it must give absolute satisfaction. Per pkt., 15c.; 65c. per large pkt.; 1/4 oz., \$1.25.

NEW CREGO ASTER

Our illustration can do but partial justice to this grand flower. The twisted and curled petals give the flower the appearance of a huge flat chrysanthemum. The flowers are very large, often measuring 5 inches in diameter. The strong erect stems average 20 to 24 inches in length. Though the flowers are large they are produced in abundance.

	Oz.	Large pkt.	Pkt.
199 White	\$2.00	\$0.40	\$0.10
198 Shell Pink	2.00	.40	.10
202 Rose Pink	2.00	.40	.10
200 Lavender	2.00	.40	.10
201 Purple	2.00	.40	.10
203 Mixed	2.00	.40	.10

See pages 77 and 78 for other valuable varieties of Asters



Crego Aster

MICHELL'S SUPERB ASTERS 77



Aster—Michell's Improved Semple's Branching

MICHELL'S IMPROVED SEMPLE'S BRANCHING ASTER

This is the finest late Aster we can recommend. The deep, heavy incurved flowers are borne on rigid stems often 2 feet and more in length. The colors are superb and can be used to advantage as a cut flower. What we offer is not the aster which is usually known by that name, but something much superior, as we are extremely critical in the selection of specimens for seedling. During the past season we have received numerous testimonials on the strength of the quality of this aster.

	Oz.	Large Pkt.	Pkt.
262 White	\$1.50	\$0.40	\$0.10
259 Shell Pink	1.50	.40	.10
257 Lavender	1.50	.40	.10
258 Rose Pink	1.50	.40	.10
260 Purple	1.50	.40	.10
261 Crimson	1.50	.40	.10
263 Choice Mixed	1.50	.40	.10
264 Our Collection (one packet each of above 6 colors)....			.50

MICHELL'S INVINCIBLE ASTER

Healthy, robust plants of branching growth; produce, on 2 foot long stems, massive pæony-formed flowers, which are always perfectly double. They begin to flower quite early in summer and remain perfect until checked by frost.

	Oz.	Large Pkt.	Pkt.
239 White	\$2.00	\$0.40	\$0.10
238 Rose Pink	2.00	.40	.10
237 Lavender	2.00	.40	.10
235 Blue	2.00	.40	.10
236 Crimson	2.00	.40	.10
239a. Mixed. All colors	2.00	.40	.10
248 Our Collection (one packet each of above 5 colors)...			.40

QUEEN OF THE MARKET ASTER

Very desirable on account of its earliness and the freedom in which it flowers. Well-formed flowers are produced on 12-inch stems in the greatest profusion early in July.

	Oz.	Large Pkt.	Pkt.
279 White	\$1.00	\$0.25	\$0.10
277 Blush Pink	1.00	.25	.10
274 Rose Pink	1.00	.25	.10
276 Light Blue	1.00	.25	.10
275 Dark Blue	1.00	.25	.10
278 Crimson	1.00	.25	.10
280 Choice Mixed	1.00	.20	.10
273 Our Collection (one packet each of above 6 colors) .....			.50
281 Imported Collection of 8 Colors .....			.60

PAEONY-FLOWERED PRIZE ASTER (Truffaut's)

Perfectly shaped flowers, each petal regularly incurved to meet at the centre, carried straight on stems 18 inches high.

	Oz.	Large Pkt.	Pkt.
304 White	\$2.25	\$0.40	\$0.10
302 Pink	2.25	.40	.10
301 Light Blue	2.25	.40	.10
303 Purple Violet	2.25	.40	.10
300 Crimson	2.25	.40	.10
305 Choicest Mixed	2.00	.40	.10
307 Our Collection (one pkt. each of above 5 colors) .....			.40
306 Imported Collection of 12 Colors .....			.75

GIANT COMET ASTER

A flower of exquisite form, similar to the Hohenzollern and resembling Japanese Chrysanthemums; petals are curled downward at the tips and resemble ostrich feathers.

	Oz.	Large Pkt.	Pkt.
194 White	\$2.25	\$0.40	\$0.10
192 Peach Blossom	2.25	.40	.10
193 Pink and White	2.25	.40	.10
190 Light Blue	2.25	.40	.10
189 Dark Blue	2.25	.40	.10
191 Crimson	2.25	.40	.10
195 Choice Mixed	2.00	.40	.10
197 Our Collection (one pkt. each of above 6 colors) .....			.50
196 Imported Collection of 12 Colors .....			.75

PEERLESS PINK ASTER

266 This is one of the finest of the late branching types, but comes into bloom a little earlier. The plants are of robust habit, and produce on long stems large and perfectly double flowers of a beautiful shell pink, very similar in shade to the Mary Semple variety. Per pkt., 15c.; 50c. per large pkt.; per oz., \$3.00.



Aster—Invincible

78 MICHELL'S SUPERB ASTERS



Aster—Daybreak

FIVE VALUABLE ASTERS OF THE "DAYBREAK" TYPE

The Daybreak class forms strong plants of symmetrical growth; flowers large, perfectly double and carried on long, erect stems, seldom less than 18 inches in length.

- | | | | | |
|-----|---|--------|------------|--------|
| 270 | Michell's Purity (White Daybreak). | Oz. | Large pkt. | Pkt |
| | Very free flowering; plants are literally one mass of snow-white flowers. | \$3.00 | \$0.40 | \$0.10 |
| 205 | Pink Daybreak. Flowers large, double and of a delicate pink | 3.00 | .40 | .10 |
| 250 | Lavender Daybreak. Large flowers of a beautiful shade of lavender | 3.00 | .50 | .15 |
| 253 | Lemon Drop (Yellow Daybreak). Flowers perfect and symmetrical in form, and of a decided yellow color | 3.00 | .50 | .15 |
| 284 | Salmon King (Salmon Daybreak). A splendid addition to the Daybreak class; the color is not only novel, but of a very pleasing shade | 3.00 | .50 | .15 |

NOTE—One packet each of the above five varieties of Asters for 50c.

IMPROVED VICTORIA ASTER

A compact upright growing plant with stout stems and deep, full flowers of large size; height, 18 inches.

- | | | | | |
|-----|---|--------|------------|--------|
| | | Oz. | Large pkt. | Pkt. |
| 324 | White | \$2.75 | \$0.40 | \$0.10 |
| 321 | Pink | 2.75 | .40 | .10 |
| 320 | Light Blue | 2.75 | .40 | .10 |
| 322 | Purple | 2.75 | .40 | .10 |
| 323 | Scarlet | 2.75 | .40 | .10 |
| 325 | Choice Mixed | 2.50 | .40 | .10 |
| 319 | Our Collection (one packet each of above 5 colors). | | | .40 |
| 326 | Imported Collection of 8 Colors | | | .60 |

VICK'S ENCHANTRESS PINK ASTER

312 Of vigorous, upright, branching habit, with long strong stems; the beautiful, large double flowers have the delicate pink shade of the Enchantress Carnation. The broad, flat petals give a pleasing soft effect. Per pkt., 15c.; 50c. per large pkt.

ASTERS—Miscellaneous Sorts

- | | | | | |
|-----|--|--------|--------|--------|
| 252 | Lavender Gem. A beautiful Oz. Large pkt. Pkt. | | | |
| | variety of the Comet type, with large, perfectly double flowers of a delicate shade of lavender; 2 feet | \$3.00 | \$0.50 | \$0.15 |
| 268 | Pink Beauty. An excellent variety of the chrysanthemum flowered type; strong, upright growth producing an abundance of immense, double flowers; inner petals incurved; outer, reflexed; Color, a soft, delicate blush pink | 3.00 | .50 | .15 |
| 282 | Rose King. Habit of growth similar to the Branching Aster. In form the flower is distinct; petals resemble the quilled varieties, but are larger and broader, those in the centre being curled and incurved | 2.25 | .40 | .15 |
| 316 | Violet King. Of the same habit of growth and form of flower as above; color, soft violet lilac | 2.00 | .40 | .10 |
| 317 | Vick's White King Aster. This variety will attract the attention of every one who is acquainted with the Violet King. The flowers are large, full centered and pure white; stems long, 16 to 20 inches; profuse bloomer | 2.25 | .50 | .15 |
| 308 | Mikado Pink or Rochester. Plants of branching habit, and producing flowers of immense size, with long narrow, gracefully reflexed petals. Color, shell pink | 2.25 | .40 | .10 |
| 180 | China or German Mixed. This mixture contains many different sorts and colors | .60 | .20 | .05 |

PERENNIAL ASTER (Michaelmas Daisy)

- | | | | |
|-----|--|------------|--------|
| 328 | Choice Mixed. One of the showiest of our late flowering, perennial plants; star-like, single flowers; if sown early in spring will flower the first season; 2 feet | Large pkt. | Pkt. |
| | | \$0.30 | \$0.10 |



Violet King Aster



AURICULA (Primula Auricula)

Choice Mixed. These early flowering perennial plants resemble primroses and have multi-colored flowers in great variety; 1 foot; May.....\$0.50 \$0.10

AVENA (Ornamental Grass) (See Page 90)



Balsam-Camellia Flowered

DOUBLE BALSAM (Lady's Slipper)

These old-fashioned flowers have been much improved, and what we offer are perfect in form and of the largest size. Give Balsams plenty of room and they will develop to immense plants with gorgeous flowers. They are of easy culture and will surely succeed almost anywhere; height, 2 feet.

	Oz.	Large Pkt.	Pkt.
Camellia Flowered, Pink	\$1.00	\$0.25	\$0.05
" " Scarlet	1.00	.25	.05
" " White Perfection.....	1.50	.30	.10
" " Prince Bismarck. Rich salmon pink	1.50	.30	.10
" " Choicest Mixed .....	.75	.20	.10
Fine Mixed .....	.50	.15	.05
Imported Collection of 6 Colors .....			.30

BALLOON VINE (Love-In-a-Puff)

A rapid growing annual climber, with white blossoms; seed pods look like miniature balloons..\$0.20 \$0.05

BALSAM APPLE (Momordica)

Remarkably handsome climbing annuals, bearing ornamental orange-colored fruit which when ripe opens, showing a brilliant crimson interior. Large Pkt. Pkt. Oz., 30c.\$0.15 \$0.05

BAPTISIA (False Indigo)

Australis. A strong growing perennial plant about 2 feet high, with dark green, deeply cut foliage and spikes of dark blue flowers in June and July .20 .05

BARTONIA

Aurea. A free blooming, showy annual plant with large golden yellow flowers; thrives well in partial shade; 18 inches..... .15 .05

BEAN (Runner)

A rapid climber, flowering profusely; grows 10 to 15 feet high.

Butterfly Runner. A new and distinct variety; the flowers are of large size and borne in great profusion; color, pink and white. Oz., 15c.; pkt., 5c.

Scarlet. Pint, 20c.; pkt., 5c.

White. Pint, 20c.; pkt., 5c.

BEGONIA (Semperflorens Type)

The value of flowering Begonias as bedding plants has been fully established and the gorgeous effects they have produced have placed them in the front rank of bedding plants. Seeds sown in February or March under glass will produce nice plants for planting out in June. Large Pkt. Pkt.

Vernon. Deep red flowers and bronzy-red foliage.....	\$0.30	\$0.10
Anna Regina. Rose-colored flowers.....	.65	.15
Erfordia. Delicate pink, one of the choicest.....	.40	.15
Gromanii (New). Flowers red; foliage, bronze green	Original packet,	1.00
Queen of Carpet Bedders. Of compact dwarf growth; flowers deep red.....	.40	.15
Salmon Queen. Flowers brilliant salmon red; foliage dark green, with reddish hue.....	.65	.20
Zulu King. Blood red flowers and dark red leaves and stem .....	.65	.15
Choice Mixed. All sorts and varieties.....	.40	.10

BEGONIA, GRACILIS

This is undoubtedly the finest outdoor flowering Begonia; plants are literally covered with flowers throughout the summer; height, 1 foot. Large Pkt Pkt

Gracilis Bonfire (New). Plant of compact habit; large sprays of flowers of a lustrous carmine color; foliage brownish red.....		.20
Gracilis Luminosa. Deep red .....	.50	.20
" Prima Donna. Rose, shading to carmine .....	.65	.20
" Alba. Pure white .....	.40	.15
" Rosea. Light pink .....	.40	.15

BEGONIA, REX HYBRIDS

Beautifully formed leaves with colored markings; a popular house plant; choice mixed..... .65 .25

BEGONIA, TUBEROUS ROOTED

These magnificent flowers are becoming very popular because they are of easy culture and extremely showy; thrive best in semi-shady situations.

International Prize, Single. The seed we offer is saved from the finest specimens and only the largest flowers	Large Pkt. Pkt.	
Single Choice Mixed	\$0.65	.15
Double Choice Mixed .....		.25

BOCCONIA (Plume Poppy)

Cordata. A splendid hardy perennial, with glaucous green foliage and spikes 2 to 3 feet long of creamy white flowers; 5 feet..... .15 .05



BELLIS PERENNIS (See Daisy)

BOLTONIA (False Chamomile) Large pkt. Pkt.

Latisquama. A tall, late flowering plant with aster-like flowers of pinkish lavender; perennial; 6 feet; September.....\$0.30 \$0.10

BRACHYCOME (Swan River Daisy)

Iberidifolia. A profuse flowering annual with small blue flowers resembling those of the Cineraria; 9 inches20 .05

BRIZA MAXIMA—ORNAMENTAL GRASS (See page 90)

BROMUS—ORNAMENTAL GRASS (See page 90)

BROWALLIA

One of our favorite bedding plants, producing beautiful flowers during the summer and autumn months; grows freely in any rich soil; blooms finely in the winter if the plants are lifted and cut back; 18 inches. Large pkt. Pkt.

Elatea Coerulea. Large sky-blue flowers.....\$0.20 \$0.05

Speciosa Major. Large-flowering variety of brilliant ultramarine blue; desirable as a pot plant for winter and early spring flowering..... .50 .10



Calendula—Pot Marigold

CALENDULA (Pot Marigold)

Few annuals are of easier culture; sown in May outdoors they are in bloom within six weeks after sowing and remain in bloom after everything has been killed by frost. They may also be successfully grown in pots indoors.

	Oz.	Large pkt.	Pkt.
Meteor. Yellow striped with orange.....	\$0.25	\$0.15	\$0.05
Orange King. Rich dark orange.....	.25	.15	.05
Prince of Orange. Dark orange striped....	.25	.15	.05
Grandiflora. Large orange-yellow.....	.25	.15	.05
Sulphurea. Beautiful sulphur yellow.....	.25	.15	.05
Mixed .....	.25	.15	.05

CALCEOLARIA

An ornamental plant, and a universal favorite for decorating the greenhouse or conservatory; produces a mass of beautiful pocket-like flowers. Our strains of Calceolaria have a wide reputation as to large size, rich and varied colors of the flowers.

Hybrida Grandiflora, Tall Mixed. Large flowering, rich, self-colored flowers saved from a choice collection; 18 inches.....\$0.75 \$0.25

Hybrida Grandiflora Pumila Compacta. Of dwarf, compact robust growth, producing immense trusses of large and varied brilliant self-colored and spotted flowers; 1 foot..... .75 .25

James' Superb Strain. A robust grower, producing very large and beautiful flowers; 18 inches. 1.25 .50

Sutton's Perfection. Choicest mixed..... 1.00

Rugosa Mixed (Shrubby). Small flowering varieties for bedding; finest colors; 1 foot..... 1.25 .50



Calliopsis

CALLIOPSIS (Coreopsis)

Free flowering plants beginning very early and continuing until frost. Showy and excellent for cutting.

Golden Wave. Large yellow flowers with dark brown centres\$0.25 \$0.15 \$0.05

Nigra Speciosa. Rich crimson..... .25 .15 .05

Choice Mixed. All varieties and colors.... .25 .15 .05

PERENNIAL VARIETIES

Lanceolata Grandiflora. Single golden yellow flowers of graceful form; invaluable for cutting; blooms the entire summer.. .50 .15 .10

California Sunbeams. Very large flowers beautifully formed; shades of yellow and brown25 .10



Canterbury Bell

CAMPANULA MEDIA (Canterbury Bell)

These are strictly biennials and require the following cultural directions: Sow from June 1st till September 1st; when strong enough transplant to a distance of 6 inches apart; after frost has set in protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them.

	Large pkt.	Pkt.
543 Single Blue	\$0.15	\$0.05
544 " Pink .....	.15	.05
553 " White .....	.15	.05
550 " Mixed .....	.15	.05
551 Double Mixed .....	.20	.05

CAMPANULA CALYCANTHEMA (Cup and Saucer)

These produce beautiful, large single flowers, resembling a cup and saucer; they require the same treatment as above.

	Large pkt.	Pkt.
545 White	\$0.30	\$0.10
588 Pink .....	.30	.10
586 Blue .....	.30	.10
546 Mixed .....	.25	.10

CAMPANULAS OR BLUE BELLS

PERENNIAL VARIETIES

These are among our best known hardy perennials; the tall varieties are fine for cutting while the dwarf sorts make excellent border plants; all have dainty bell-shaped flowers.

538 <i>Carpatica, Blue</i> (<i>Carpathian Hare Bell</i>). Com-Lga. pkt. Pkt.		
pact tufts not exceeding 8 inches; flowers clear blue, held erect; blooms in June and July.....	\$0.20	\$0.05
539 <i>Carpatica, Alba</i> . Pure white.....	.20	.05
547 <i>Persicifolia Grandiflora, Blue</i> (<i>Peach Bells</i>). Stately spikes, 4 feet tall with immense blue bell-shaped flowers .....	.30	.15
548 <i>Persicifolia Grandiflora, Alba</i> . Pure white....	.30	.15
549 <i>Pyramidalis</i> (<i>Chimney Bell Flower</i>). Perfect pyramids 6 feet high crowded with large bell-shaped flowers, blue and white mixed.....	.25	.05

CANARY BIRD FLOWER

555 One of the most charming annual climbers, bearing an abundance of bright yellow, fringed flowers	oz. 30c.	.15	.05
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Michell's Giant White Candytuft

CANDYTUFT (Iberis)

Splendid edging plants, flowering within six weeks after sowing; height, 1 foot. They are excellent for cutting.

561 <i>Michell's Giant White</i> . The largest and finest white. From 10 to 12 immense spikes resembling Hyacinths appear on a single plant; Large pkt. Pkt. fine for forcing	oz. 60c.	\$0.20	\$0.10
562 <i>Empress</i> . An excellent variety with long trusses of pure white flowers.....	oz. 40c.	.15	.10
566 <i>Pink</i>	oz. 40c.	.15	.05
560 <i>Crimson</i>	oz. 25c.	.15	.05
559 <i>Carmine</i> . Deep scarlet	oz. 40c.	.15	.05
568 <i>Purple</i> . Deep rich purple	oz. 25c.	.15	.05
574 <i>White Rocket</i> . Long spikes	oz. 20c.		.05
564 <i>Little Prince</i> . Very dwarf and compact with pure white flowers; excellent for edging; oz. 50c. ....	.15	.10	
576 <i>Choice Mixed</i> . All colors	oz. 20c.		.05
578 <i>Imported Collection, 6 Colors</i> .....			.25
570 <i>Sempervirens</i> . Dwarf spring flowering perennial plants; ideal for the bulb border, flowers of glistening white, May, 8 inches .....	.30	.10	

CANNA (Indian Shot)

Although these are generally planted from roots, they may be grown with comparative ease from seed. Scrape extreme edge of seed with a sharp filing iron and put seeds in wet moss over slight heat. Just as soon as they start they ought to be potted.

	Oz.	Pkt.
Crozy's Dwarf Mixed. From the finest sorts.....	\$0.25	\$0.05



Carnation—Marguerite

CARNATION

These are general favorites for their richness of color and delightful fragrance; they are desirable for greenhouse culture in winter as well as for the garden in summer. Start in the house from January till April, but do not set outdoors until danger from frost is past.

	Large Pkt.	Pkt.
Early Vienna. Large double flowers in choicest mixture; 1 foot	\$0.30	\$0.10
Finest German. Double mixed; selected strain..	.65	.25
Choice Mixed Double. All sorts .....	.50	.10

MARGUERITE CARNATIONS

These are the most satisfactory of the annual pinks; and will bloom in four months after sowing the seed. The flowers are large, always perfect, fragrant and are produced continuously. If slightly protected the first winter, they will revive the following spring and bloom during that whole season.

	Large Pkt.	Pkt.
Excelsior Mixed. Immense flowers in all the beautiful shades	\$0.40	\$0.15
Pink .....	.40	.10
White .....	.40	.10
Scarlet .....	.40	.10
Yellow .....	.40	.10
Choice Mixed	OZ. \$1.00	.25 .10

CASTOR OIL BEAN (See Ricinus)**CELOSIA CRISTATA (Crested Cockscomb)**

Very desirable for garden effects or edging; easily grown; produces large, brilliant comb-like heads.

	Large Pkt.	Pkt.
Aurea. Yellow	\$0.30	\$0.10
Giant Empress. Giant heads of rich crimson.....	.30	.10
Glasgow Prize .....	.25	.10
Sutton's Prize. Very dwarf, bright scarlet comb.		.50
Choice Mixed	OZ., \$1.00	.20 .05

CELOSIA PLUMOSA (Feathered Cockscomb)

A splendid decorative plant for the garden. The feathery plumes are produced on long stems and are excellent for cutting.

	Large Pkt.	Pkt.
Pride of Castle Gould. Large flower heads of many colors, in mixture	\$0.40	\$0.15
Scarlet .....	.15	.10
Golden Plume. Bright golden plume .....	.15	.10
Spicata. Of pyramid growth; flowers pink shading to silvery white; 3 feet.....	.20	.10
Thompsoni Magnifica. An improved strain with magnificent shades .....	.25	.10
Thompson's Superb. A strain with bronze colored foliage and graceful feathery plumes of brilliant crimson; 2 feet.....	.20	.10
Choice Mixed. All colors	OZ., 50c.	.15 .05

CARDINAL CLIMBER

(*Ipomoea Quamoclit*)
(Hybrida)

A distinct and beautiful new annual climber; a very rapid grower and free bloomer; the vines branch freely, covering a large space very quickly and growing to a height of 20 to 30 feet. Leaves dark green and deeply lacinated; bears a great profusion of fiery, cardinal red flowers, which are about 1½ inches in diameter. Per pkt., 15c.; 25c. per 2 pkts.



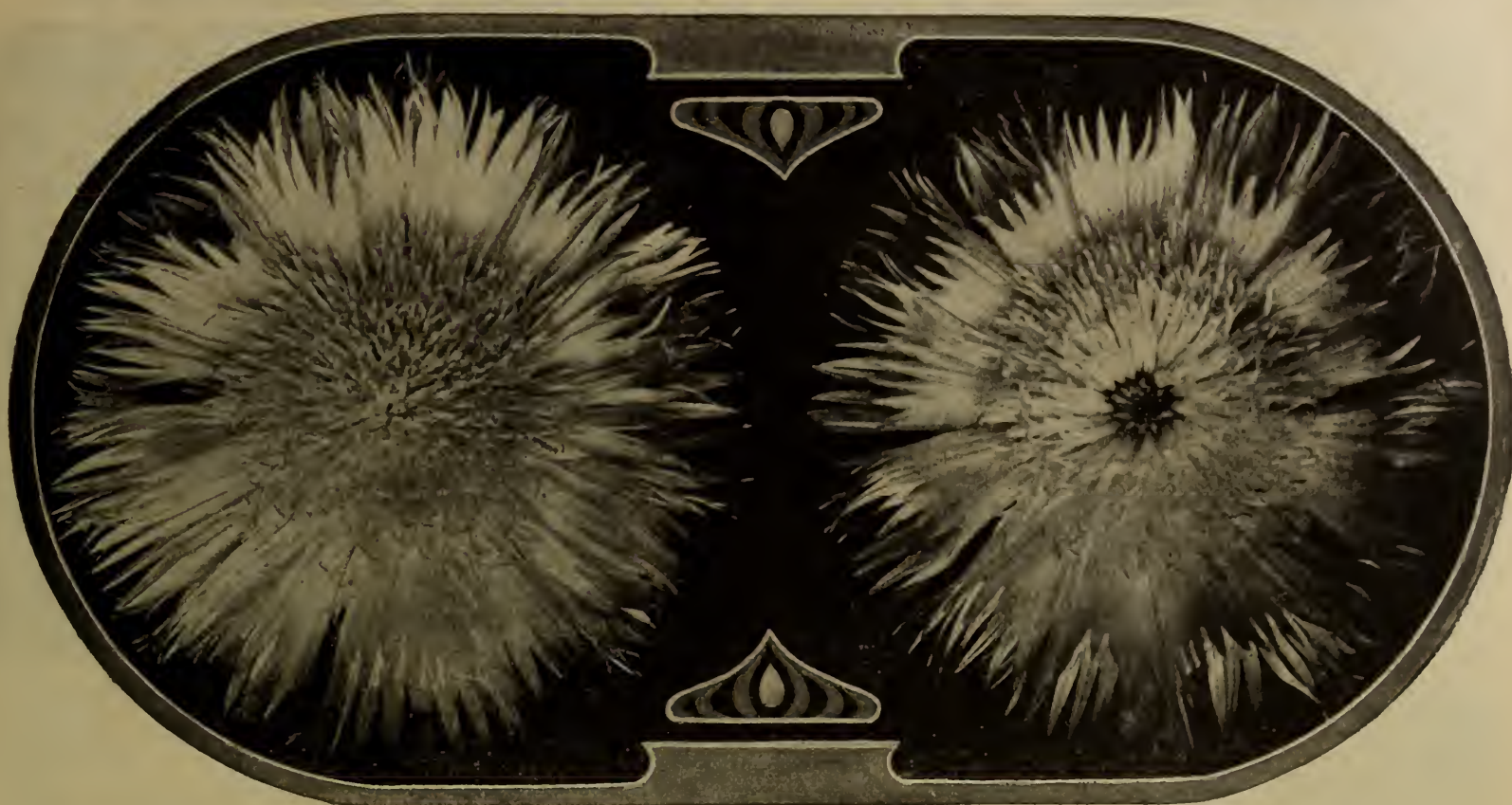
Cardinal Climber

Ask for Cultural Leaflet
No. 213 on the growing of
Carnations
from
Seed

Don't fail to read pages 66 to 72 for valuable Novelties and Specialties in Flower Seeds.



Celosia—Pride of Castle Gould



Centaurea Imperialis (Natural Size)

CENTAUREAS

CENTAUREA IMPERIALIS (Giant Cornflower, or Sweet Sultan)

Gigantic, beautiful, sweet-scented flowers borne on long stems. They are well adapted for cutting and remain fresh long after being cut. Height of plant, 2 to 3 feet.

	Oz.	Large Pkt.	Pkt.
Deep Rose	\$0.75	\$0.20	\$0.10
Lavender .....	.75	.20	.10
Lilac .....	.75	.20	.10
Brilliant Pink .....	.75	.20	.10
Purple .....	.75	.20	.10
White .....	.75	.20	.10
Choice Mixed .....	.60	.15	.10
Collection. One packet each of above 6 varieties....			.50

NEW GIANT FLOWERED CENTAUREAS

Magnificent flowers produced on long, stout stems; excellent for cutting, and lasting a long while after being cut.

	Large Pkt.	Pkt.
The Bride. Pure white	\$0.40	\$0.15
The Bridegroom. Purplish mauve.....	.40	.15
Honeymoon. Golden yellow .....	.40	.15

CENTAUREA CYANUS (Cornflower or Bachelor's Button)

Also known as Blue Bottle, Ragged Sailor, Bluet, etc.; an old favorite garden annual, flowering freely in almost any situation; 2 feet.

	Oz.	Large Pkt.	Pkt.
Emperor William. Deep blue	\$0.25	\$0.15	\$0.05
Double Blue. Very large	1.25	.20	.10
Pink .....	.25	.15	.05
White .....	.25	.15	.05
Choice Mixed .....	.25	.15	.05
Double Mixed .....	.40	.15	.05

WHITE LEAVED CENTAUREA (Dusty Miller)

Grown for their silvery foliage as edging plants. 500 Seeds Pkt.
Gymnocarpa. Fine cut silvery gray foliage.....\$0.20 \$0.10
Candidissima. Broad cut leaves of silvery gray.. .30 .10

VARIOUS CENTAUREAS

Americana. An excellent variety, growing about 3 feet high, with large, lilac purple, thistle-like flowers	Large Pkt.	Pkt.
	\$0.20	\$0.10
Margaritae. Large white flowers; fragrant.....	.25	.10
Suaveolens. Bright yellow, fragrant blossoms...	.15	.05
Pulcherrimus. Perennial; delicate pink; 2½ feet.	.50	.15
Montana. Blue; perennial; 18 inches .....	.30	.10
Montana Alba. White .....	.30	.10



Centaurea Cyanus (Corn Flower)

**CERASTIUM** (Snow in Summer) Large Pkt. Pkt.

Tomentosum. Dwarf, white-leaved edging plant; flowers white; 4 inches\$0.40 \$0.15

CHRYSANTHEMUM—ANNUAL VARIETIES

Exquisitely colored daisy-like flowers with finely cut foliage; good for cutting; also effective as a border plant. Large Pkt. Pkt.

Helios (*Evening Star*). Extra large pure golden yellow flowers often measuring 4 inches across; height, 2 feet..\$0.15 \$0.10

White Star. Purest white......20 .10

Inodorum, "Snowball." Large double flowers of finest white and good form; splendid for cutting; 1 foot..... .20 .10

Single Mixedoz., 30c. .15 .05

Double Mixedoz., 30c. .15 .05

CHRYSANTHEMUM—PERENNIAL VARIETIES

Comtesse de Chambord (*Golden Paris Daisy*). Single, beautiful clear yellow flowers.....\$0.20 \$0.10

Frutescens Grandiflorum (*Paris Daisy or Marguerite*). Single white flowers20 .10

Shasta Daisy, "Alaska." The finest of all; single white flowers on long stems; 2 feet..... .50 .20

King Edward VII. Flowers extra large; pure white..... .25 .10

Princess Henry. Immense white flowers, 4 inches across; 18 inches25 .10

Japanese Hybrids. Large flowers of the finest types; an extra choice mixture; seed sown in spring will produce flowering plants by fall; 2 feet..... .65 .15

CLARKIA

Annuals of easy culture; planted in large groups they are very bright and effective; the long graceful sprays are good for table decorations. Large Pkt. Pkt.

Single Mixed. All colors.....\$0.15 \$0.05

Double Mixed. All colors15 .05

CLEOME (Spider Plant)

An attractive annual plant with curious heads of flowers.

Pungens. Pink flowers Large Pkt. Pkt. \$0.15 \$0.05

COLEUS

Large Leaved Hybrids. Popular bedding plants with beautifully colored foliage; easily grown from seed if kept in warm temperature65 .25



Cineraria—Michell's Grandiflora Prize



Shasta Daisy, Alaska

CINERARIA

One of the most ornamental and useful plants for conservatory or house decoration; seed may be sown from May to September for a succession. **Our Grandiflora Prize Strain** is the best procurable, producing immense trusses of the largest flowers, often measuring up to 4 inches across.

Grandiflora Prize Dwarf. Mixed colors; plants of dwarf habit..... Large Pkt. Pkt. \$0.75 \$0.35

Grandiflora Prize Medium Tall. Mixed colors; desirable as a decorative plant. .75 .35

James' Giant Strain. A superb variety; mixed colors 1.25 .50

Sutton's Superb. Mixed colors. Original pkt.75

Matador. Large bright red flowers..... .75 .35

Hybrida. Choice mixed colors..... .65 .25

Radiata Hybrida. New varieties of the Star Cineraria in a wide range of colors and shades75 .20

Stellata (*Sutton's*). Medium sized star-like flowers. Original pkt..... .75

Stellata Hybrida. Of graceful and vigorous habit, producing a profusion of elegant flowers75 .25

WHITE-LEAVED CINERARIA (*Dusty Miller*)

Maritima Candidissima. Silvery green lacinated foliage, good for edging..... Large Pkt. Pkt. .15 .05

CLEMATIS

Hardy perennial climbers; fine for arbors, verandas, etc. Large Pkt. Pkt.

Flammula. Feathery-white fragrant flowers \$0.15 \$0.05

Jackmann's Large Flowering. Mixed; saved from the finest, large flowering sorts40 .15

Paniculata (*Japanese Virgin's Bower*). The beautiful autumn flowering variety so much admired for its fragrant, white star-shaped flowers20 .10

COBAEA SCANDENS (*Cups and Saucers Vine*)

Well-known climber of rapid growth, producing large bell-shaped blossoms; in sowing, place the seeds edgewise, and merely cover with light soil.

Purple Large Pkt. Pkt. oz., 60c. \$0.15 \$0.10
White30 .10

COCKSCOMB See *Celosia*

COIX LACHRYMAE (*Ornamental Grass*)

(See page 90)

COLUMBINE See *Aquilegia*

**CONVOLVULUS** (Morning Glory)**MAJUS, OR TALL VARIETIES**

One of the most popular annual climbers; a rapid grower.

Japanese Imperial. Flowers of immense size, and of a great variety of colors.....	Oz. \$0.25	Pkt. \$0.05
Japanese Imperial Fringed. Large fringed flowers of many beautiful colors and shades.....	.40	.10
Snow Fairy. A new and beautiful variety, producing an abundance of large double, snow-white, tassel-like flowers .....		.15
Mixed. All colors .....	.15	.05
Double Flowering. Mixed colors .....	.40	.10
Imported Collection. 10 varieties .....		.30

MINOR, OR DWARF VARIETIES

A charming garden plant, growing about a foot high.

Mixed Colors .....	.15	.05
Tricolor. Blue and white.....	.15	.05

CORN

Rainbow. Stalks grow 5 feet tall; leaves variegated, with broad stripes of crimson, yellow, white, green, etc.; excellent for decorating....

	.30	.10
--	-----	-----

CORNFLOWER (See Centaurea)**COWSLIP** (See Primula Veris)*Michell's Giant Fancy Cosmos**Japanese Imperial Morning Glory (Convolvulus)***COSMOS**

One of the most beautiful and useful of hardy annuals, producing large showy flowers in great profusion; excellent for cutting.

MICHELL'S LARGE EARLY FLOWERING

This new Early Flowering Strain will begin blooming as early as July and will continue until frost; flowers large, often measuring 3 inches across; 4 feet.

	Oz.	Large Pkt.	Pkt.
Crimson	\$0.75	\$0.20	\$0.10
Pink .....	.75	.20	.10
White .....	.75	.20	.10
Mixed .....	.60	.20	.10
Dawn. White flushed with pink.....	.75	.20	.10

MICHELL'S GIANT OR LATE COSMOS

Large flowers of perfect form; 5 to 6 feet.

	Oz.	Large Pkt.	Pkt.
Pink	\$0.50	\$0.15	\$0.10
Crimson .....	.50	.15	.10
White .....	.50	.15	.10
Mixed .....	.50	.15	.05
Giant Fancy Varieties. Mixed colors...	1.00	.30	.10
Giant "Lady Lenox." Flowers are of immense size, with wide overlapping petals, making a perfectly circular flower; color a beautiful shell pink....	.75	.20	.10
Giant White Lady. A selection from the Lady Lenox described above; flowers large, pure white	1.00	.25	.10
New Giant Rainbow. Delicate colorings	1.00	.25	.10
Klondyke. Large golden yellow flowers.	1.00	.30	.10

CUPHEA (Cigar Plant)

Platycentra. Interesting bedding plant; the flower is shaped like a hollow cigar; color, scarlet with a black and white tip; 1 foot....\$0.30 \$0.10



Cyclamen, Michell's Distinctive Giant

CYCLAMEN

Most beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental.

MICHELL'S DISTINCTIVE GIANT

Grown for us in England by a Specialist who has received numerous First Prizes for the large size and beautiful coloring of the flowers.

	100 Seeds	Pkt.
Duke of Connaught. Crimson	\$1.50	\$0.50
Excelsior. White with red eye.....	1.50	.50
Grandiflora Alba. White.....	1.50	.50
Princess of Wales. Pink.....	1.50	.50
Salmon Queen. Salmon pink.....	1.50	.50
Mixed. All colors.....	1.25	.40

REGULAR GIGANTEUM STRAIN

Grown for us by a Specialist in Germany.

Giganteum Album. White	1.00	.35
" Roseum. Pink	1.00	.35
" Rubrum. Red	1.00	.35
" White with carmine eye.....	1.00	.35
" Glory of Wandsbek. Extra large; salmon red color	1.75	.35
" Mixed. Choicest strain.....	1.00	.25

VARIOUS CYCLAMEN

Mrs. Buckston. Frilled and waved flowers; color delicate salmon. Original pkt.....	1.75	.50
Rokoko Erecta. Flowers large, upright, beautifully fringed and borne on straight, upright stems; mixed colors	1.75	.50
Papilio (Butterfly). The edges of the flowers are beautifully fringed, or waved; mixed colors....	1.50	.40
Persicum. Choice mixed	\$0.40	\$0.10
Sutton's Giant. Choicest mixed. Original pkt...		.75

Ask for Cultural Leaflet No. 215 on the growing of Cyclamen.

CYPERUS (Umbrella Plant)

Alternifolius. An elegant plant for growing in water or damp places; useful as a pot plant....	Large Pkt.	Pkt.
	.40	.10

CYPRESS VINE (Ipomoea Quamoclit)

A very graceful annual climber, with feathery foliage; and beautiful, star-like flowers.

	Oz.	Pkt.
Scarlet	\$0.30	\$0.05
White .....	.30	.05
Mixed .....	.25	.05



Dahlia, Large Flowering Show

DAHLIAS FROM SEED

There is no more fascinating flower to raise from seed than the Dahlia, for the result is a series of surprises; seed should be started in the house from February till May and the young plants should not be set outdoors until danger from frost is past.

DOUBLE FLOWERING VARIETIES

	Large Pkt.	Pkt.
Cactus, Choice Mixed	\$0.30	\$0.10
Large Flowering (Show Type), Mixed .....	.30	.10

SINGLE FLOWERING VARIETIES

Giant Perfection. Immense single flowers of various colors, many beautifully striped and spotted .....	.30	.10
Twentieth Century. Flowers of immense size with distinct colorings; very handsome.....	.50	.15
Collarette. Flowers of various colors, adorned with a collar of small petals around the centre; curious and pretty.....	.30	.15
Imported Collection, 6 Varieties .....		.50

For Dahlia roots, see pages 120 to 126.

DAISY, ENGLISH DOUBLE (Bellis Perennis)

These are favorite perennials; seed should be sown from June 1st till September, transplanted in the fall and they will flower the following spring. If sown in the spring they will flower in the autumn; 4 inches.

	Large Pkt.	Pkt.
Monstrosa, Pink. These surpass all strains of this popular plant in growth and in the abundance of extra large, perfectly double flowers...	\$0.65	\$0.25
Monstrosa, White .....	.65	.25
Monstrosa, Mixed .....	.65	.25
Longfellow. Large double pink flowers.....	.40	.10
Snowball. Purest white; large and double.....	.40	.10
Double Mixed. Finest quality.....	.40	.10

DATURA (Trumpet Flower)

A most ornamental plant growing quite bushy with extra large trumpet-shaped flowers; height, 2 to 3 feet.

Cornucopia (Horn of Plenty). Large double sweet-scented flowers; white marbled with purple....	\$0.15	\$0.10
Double Golden. Golden yellow flowers; fragrant.	.15	.05
Double Mixed. All colors .....	.15	.05
Brugmansia (Arborea Simplex). Large, single white fragrant flowers, often 12 inches long.....	.50	.15



DELPHINIUM (Hardy Perennial Larkspur)

One of the finest hardy perennials; very easily grown from seed, blooming the first season if sown early. Very effective in beds, masses or borders. To prolong the season of bloom, cut the old flower stems off after they have faded, and new shoots will produce flower heads successfully.

	Large Pkt.	Pkt.
Kelway's Giant. A strain recognized the world over as a prize-winner; plants are of strong, vigorous growth, with immense spikes of large flowers; many shades of blue; 5 to 7 feet.....	\$0.50	\$0.15
Belladonna. One of the most continuous blooming varieties; immense spikes of clear turquoise blue; 5 feet.....	.65	.25
Duke of Connaught. Rich oxford blue with a distinct white eye.....	.50	.15
Formosum. Deep blue; 5 feet.....	oz., \$1.00	.20
Formosum Coelestinum. Sky blue .....	.30	.15
Chinense Grandiflorum. A dwarf strain with loose branches and sprays of bright blue flowers; 2 feet.....	oz., 50c.	.15
Chinense Grandiflorum Album. Pure white flowers.....	oz., 50c.	.15
Cashmerianum. Dark blue; 18 inches.....	.50	.10
Elatum (Bee Larkspur). Rich blue; 4 feet.....	oz., 75c.	.25
Geneva. Large flowers of a beautiful light blue, with white eye.....	.50	.15
Julia. Immense flowers of a pretty cornflower blue, veined with rose, large white eye.....	.50	.15
Mme. Violet Geslin. Semi-double; clear blue, lavender centre, with white eye .....	.50	.15
Nudicaule. Bright scarlet; 18 inches.....	.50	.10
Queen Wilhelmina. Large flowers of a soft lavender blue, flushed with rose, white eye .....	.50	.15
Rembrandt. Bright sky-blue, inner petals rosy lavender.....	.50	.15
Zalil. Sulphur yellow; 4 feet.....	.50	.10
Hybridum Mixed. Choicest; 4 feet.....	oz., 50c.	.15
		.05



Delphinium—Double Annual Pinks

For
DELPHINIUM
PLANTS
See Page 158



Delphinium—Kelway's Giant

DIANTHUS (Pinks)

A most satisfactory class of flowers, easily raised from seed and which are in constant bloom the entire season; fragrant.

	Large Pkt.	Pkt.
China or Indian Pink. All colors mixed.....	oz., 50c.	\$0.15
Fireball Fiery red .....	.20	.10
Double Fringed. Large flowers; mixed.....	.20	.10
Japan Pink. Most fantastic colors and forms.....	.20	.10
White. Fringed flowers .....	.20	.05

SINGLE ANNUAL SORTS

Single Japan Pink. All colors	oz., 60c.	.20	.05
Nobilis. The large open single flowers measure three to four inches in diameter and are remarkable for the varied range of extremely bright colorings .....	.25	.10	
Salmon Queen. Fringed; salmon pink.....	.20	.10	
Imported Collection. All forms, 12 varieties..		.50	

HARDY GARDEN PINKS

Erfurt. Of dwarf, compact growth; blooms early; very fragrant; mixed colors.....	.65	.15
Clove Scented. Double and semi-double varieties, in beautiful colors; fragrant.....	.40	.10
Latifolius Atrococcineus (<i>Everblooming Hybrid Sweet William</i>). Double, brilliant red.....	.25	.10
Pheasant's Eye. Single white fringed flowers with dark centre.....oz., 60c.	.15	.05
Double Scotch. Choice colors.....	.40	.15

DICTAMNUS (Gas Plant)

Fraxinella. Showy bushy plants; 2½ feet high; purple red flowers; June and July.....	.15	.05
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*Digitalis (Foxglove) Gloxiniaeflora***DIGITALIS (Foxglove)**

Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet.

	Oz.	Large Pkt.	Pkt.
<i>Gloxiniaeflora</i> , Lilac	\$0.75	\$0.15	\$0.10
" Pink .....	.75	.15	.10
" Purple .....	.75	.15	.10
" White .....	.75	.15	.10
" Mixed .....	.60	.15	.05

Monstrosa (Mammoth Foxglove). The tall spikes are surmounted by one monstrous flower. All colors mixed..... $\frac{1}{4}$ oz., 40c. .30 .10

*Dimorphotheca-Aurantiaca Hybrida***DIMORPHOTHECA**

	Large Pkt.	Pkt.
<i>Aurantiaca (African Orange Daisy)</i> . One of the showiest garden annuals; compact, bushy plants with orange-gold daisy-like blooms on long stems; excellent for cutting.....	\$0.40	\$0.10
<i>Aurantiaca Hybrids</i> . A splendid mixture of colors and shades, from white through various shades of yellow, orange, rose, etc.....	.40	.10
<i>Aurantiaca Hybrida</i> , fl. pl. Double and semi-double flowers in various colors.....	.50	.20

DOLICHOS (Hyacinth Bean)

Oz. Pkt.

Rapid growing climber, bearing a profusion of bean-like flowers.

Darkness. A variety from Japan; rapid grower; flowers reddish violet\$0.25 \$0.10

Daylight. Identical to the above except in color, which is pure white. .25 .10

Choice Mixed15 .05

DRACENA

Large Pkt. Pkt.

Ornamental plants for vases or conservatory decoration.

Australis. Green and red colored leaves.....\$0.20 \$0.10

Indivisa. Narrow green leaves.....oz., 50c. .15 .10

ECHINOCYSTIS (Wild Cucumber Vine)

Lobata. One of the quickest growing vines; excellent for covering trellises, fences, etc.....oz., 30c. .15 .05

EDELWEISS (Gnaphalium)

Leontopodium. The famous Alpine flower, suitable for rock work, etc.; 6 inches..... .40 .15

For
DIGITALIS
PLANTS
See Page
159

*Eschscholtzia (California Poppy)***ESCHSCHOLTZIA (California Poppy)**

An elegant hardy annual with fine cut foliage, and large, poppy-like flowers; in bloom from June until frost; fine for borders or large beds; 1 foot.

Large Pkt. Pkt.

Californica. Pure yellowoz., 30c.\$0.15 \$0.05

Golden West. Magnificent large deep golden yellow flowers.....oz., 40c. .15 .10

Carmine King. Beautiful carmine rose on both sides of the petals.....oz., 60c. .20 .10

Orange. Rich orange yellow.....oz., 30c. .15 .05

Whiteoz., 30c. .15 .05

Mandarin. Inner side of petals orange, outer petals scarletoz., 30c. .15 .05

Rose Cardinal. Carmine rose.....oz., 40c. .15 .05

Choice Mixedoz., 25c. .15 .05

EULALIA (Ornamental Grass) See page 90



EUPATORIUM

A fine hardy perennial, which will grow and thrive in almost any position; blooms the first season from seed if sown early; excellent for cutting; 2 feet.

Fraseri. Feathery white flowers.....\$0.20 \$0.10

EUPHORBIA

Plants with ornamental foliage; very showy and easily raised from seed; height, 2 feet.

Heterophylla (Mexican Fire Plant). Large glossy green leaves, turning to orange scarlet in mid-season\$0.20 \$0.10
Variegata (Snow on the Mountain).....oz., 30c. .15 .05

FERNS

Very desirable plants for ferneries.

Adiantum (Maiden Hair). Mixed.....\$0.65 \$0.15
Pteris Varieties. Mixed......65 .15
All Sorts Mixed. Choice collection......65 .15

We can also furnish all other varieties of fern spores.

FEVERFEW (Matricaria)

Double White. Hardy annual; free flowering; for bedding or pot culture; showy double white flowers; 18 inches.....oz., 40c. .15 .10

FORGET-ME-NOT See Myosotis

FOUR O'CLOCK See Marvel of Peru

FOXGLOVE See Digitalis

FUCHSIA (Lady's Ear Drop) 100 Seeds

Double and Single Mixed. Of easy culture.....\$0.50 .15



Gaillardia, Grandiflora

GAILLARDIA (Blanket Flower) ANNUAL VARIETIES

A splendid garden flower and excellent for cutting. The large highly colored, daisy-like flowers appear uninterruptedly the entire season on stout erect stems often 15 to 18 inches in length.

Picta Mixed. Single flowers in all colors.oz., 30c.\$0.15 \$0.05
Picta Lorenziana. Double mixed.....oz., 40c. .15 .05

PERENNIAL VARIETIES

One of the most brilliant of hardy perennials; blooming the first year from seed if sown early.

Grandiflora Compacta. A compact variety; choice mixed colors; 12 to 15 inches.....\$0.20 \$0.10
Grandiflora Superba. Splendid mixed; 2 feet; oz., 60c. .15 .10

Grandiflora Sanguinea. Blood red flowers......25 .15
Sulphurea Oculata. Sulphur, maroon eye......30 .10
Semi-double. Mixed30 .10

GENTIANA (Blue Gentian)

Acaulis. A dwarf hardy perennial; deep blue flowers; suited to moist, shady situations.....\$0.25 \$0.10

GERANIUM

These are general favorites, easily grown from seed.

Apple Scented. Highly esteemed on account of its fern-like, fragrant foliage; 1 foot.....\$0.40 \$0.10

Pelargonium (Lady Washington). Seed saved from the largest flowered show varieties.....1.25 .25

Zonale Mixed. A superb strain of the largest and finest varieties; 1 to 2 feet.....\$0.20 .10



Gerbera, Jamesoni

GERBERA (Transvaal Daisy)

Splendid greenhouse perennials with large fine-leaved, daisy-like flowers; splendid for pot plants or cutting. 100 Seeds Pkt.

Jamesoni Gigantea. Extra large flowers of brightest scarlet\$1.25 \$0.25

Jamesoni Hybrida. These hybrids include a wonderful range of brilliant colors and shades.... 1.25 .25

GEUM

Atrosanguineum Fl. Pl. A beautiful hardy perennial, bearing large, showy, double, dark crimson flowers all through the summer; fine for bouquets; 1½ feet......25 .10

GLOXINIA

Showy, free-flowering plants for pot culture; producing magnificent flowers of the richest colors; 1 foot. Large Pkt. Pkt.

Hybrida Grandiflora. The best strain in existence, embracing all the choicest self-colored and tigered and spotted flowers.....\$0.75 \$0.25

GODETIA (Satin Flower)

Beautiful and easily grown hardy annuals, producing a profusion of flowers of satiny texture. Large Pkt. Pkt.

Gloriosa. Large, blood-red flowers.....\$0.15 \$0.10
Choice Mixed. All colors......15 .05

GOLDEN ROD (Solidago Canadensis)

A well-known hardy perennial; deep golden yellow flowers; 2 feet......15 .05

GOMPHRENA (Globe Amaranth)

Also called "Bachelor's Buttons"; a showy annual everlasting, with button-like flowers, fine for cutting. Oz. Large Pkt. Pkt.

Nana Compacta. Dwarf red; 1 foot.....\$0.30 \$0.15 \$0.05
Mixed. All colors; 2 feet......25 .15 .05



Ornamental Mixed Gourds

GOURD (Ornamental)

Rapid growing annual climbers for covering arbors, fences, etc., with ornamental foliage and curious shaped fruit.

	Oz.	Large Pkt.	Pkt.
Calabash, or Dipper. Very useful.....	\$0.30	\$0.15	\$0.05
Egg-Shaped. White like an egg.....	.30	.15	.05
Hercules Club. Club shaped; 4 feet long..	.30	.15	.05
Luffa (Dish Rag or Bonnet Gourd).....	.30	.15	.05
Orange-Shaped (Mock Orange).....	.30	.15	.05
Pear-Shaped. Striped; very showy.....	.30	.15	.05
Serpent. Striped like a serpent; 5 feet long	.30	.15	.05
Sugar Trough. Used as water holders.....	.30	.15	.05
Mixed. In a great variety.....	.25	.15	.05

GREVILLEA (Silk Oak)

Robusta. A beautiful and graceful decorative plant with fern-like foliage; excellent for table decoration; easily raised from seed....oz., 75c. \$0.20 \$0.10

Do not fail to read pages 66 to 72 for valuable Novelties and Specialties.

GYPHOPHILA

(Baby's Breath)

Pretty, free-flowering plants of easy culture; excellent for cutting to mix with other flowers; 2 feet.

Elegans Alba Grandiflora. A hardy annual variety; delicate sprays of pure white flowers. Pkt., 5c.; 15c. per large pkt.; per oz., 25c.

Paniculata. Hardy perennial variety; flowers in graceful sprays of white; will bloom the first season if sown early. Pkt., 5c.; 15c. per large pkt.; per oz., 50c.

Paniculata fl. pl. Perennial, with a profusion of double white flowers. Pkt., 20c.



Gypsophila Paniculata

For Plants of
ORNAMENTAL
GRASSES
See Page 161

GRASSES, ORNAMENTAL

These are very interesting and useful, either for growing in clumps, mixed borders or in shrubberies. Also when dried they are fine for winter bouquets and decorations, for which purpose they should be gathered before fully matured.

ARUNDO (Great Reed)

Donax. Perennial with drooping green and white striped leaves; excellent for lawn clumps; 9 ft.. \$0.20 \$0.10

AVENA (Animated Oats)

Sterilis. Long, sensitive awns which expand and contract, causing the seed to rattle in the pod; annual; 18 inches..... .15 .05

BRIZA (Quaking Grass)

Maxima. Elegant panicles; excellent for bouquets and dried flowers; annual; 1 foot..... .15 .05

BROMUS

Brizaeformis. Large drooping panicles, useful for bouquets; 2 feet; annual..... .15 .05

COIX LACHRYMAE (Job's Tears)

A strong, broad leaved ornamental grass, with large shining, pearly seeds; annual; 2 to 3 feet. oz., 15c. .05

EULALIA

Japonica. A hardy perennial variety, with long graceful leaves; green and white striped; 4 to 5 feet15 .05

GYNERIUM (Pampas Grass)

Argenteum. White silvery plumes; perennial; blooms the second season; 8 to 10 feet..... .15 .10

HORDEUM JUBATUM (Squirrel Tail Grass)

Bushy panicles; excellent for bouquets; annual; 3 feet15 .05

PENNISETUM

Longistylum. Graceful greenish-white plumes, fine for beds or dried bouquets; 2 feet annual. .15 .05

Ruppelianum (Purple Fountain Grass). Excellent for beds or for dried bouquets; purple plumes; 3 feet; annual15 .10

STIPA PENNATA (Feather Grass)

Hardy perennial with silvery-white, feathery plumes; flowers the second season; 2 feet..... .15 .05



Pennisetum, Ruppelianum, (Ornamental Grass)

One packet each of the above 11 varieties of
Ornamental Grasses for 60 Cents

**HELENIUM** (Sneeze-Wort) Large Pkt. Pkt.

Autumnale Superbum. A hardy perennial, succeeding in almost any kind of soil; large heads of golden yellow flowers; blooms in late summer and autumn; 5 to 6 feet.....\$0.30 \$0.10

HELIANTHUS See Sunflower**HELICHRYSUM** (Straw Flower)

Monstrosum. One of the best everlasting flowers; useful as dried flowers for winter bouquets; double, mixed colors; 2 feet.....oz., 60c. .15 .05
Imported Collection, 10 varieties..... .50

HELIOPSIS (Orange Sunflower)

Pitcheriana. A handsome hardy perennial; producing an abundance of deep orange yellow flowers, the entire summer; excellent for cutting; 3 to 4 feet.....oz., 50c. .15 .10

*Heliotrope, Lemoine's Giant***HELIOTROPE**

A well known and highly prized plant on account of the delightful fragrance of the flowers; excellent for pots, or for bedding; 18 inches. Large Pkt. Pkt.

Lemoine's Giant. Produces a profusion of flowers nearly double the size of the old sort; mixed colors\$0.50 \$0.15

Regal. Of dwarf compact growth; immense flowers; all shades50 .15

Choice Mixed. Of many varieties..... .25 .10

Imported Collection. 6 sorts40

HEUCHERA (Alum Root)

Sanguinea. Hardy perennial; spikes of vivid crimson flowers; excellent for cutting; 1 foot..... .40 .10

HIBISCUS (Marshmallow)

Showy ornamental perennial plants, with large and beautifully colored flowers. Large Pkt. Pkt.

New Giant (Mallow Marvel). Large flowers in red, pink, purple and white, mixed.....\$0.30 \$0.15

Crimson Eye. Large white flowers with crimson centre; 4 feet.....oz., 60c. .20 .10

Moscheutos. Large, rosy red flowers with dark centre15 .05

Golden Bowl. Giant yellow, maroon centre..... .20 .10

Palustris. Large pink flowers; 3 feet..... .20 .05

*Chater's Double Hollyhock***HOLLYHOCK**

One of the most popular and desirable of hardy perennial plants; excellent for planting among shrubbery or forming a background for other flowers; 6 to 7 feet.

CHATER'S IMPROVED DOUBLE HOLLYHOCK

	Oz.	Large Pkt.	Pkt.
Pink	\$1.25	\$0.30	\$0.10
Maroon	1.25	.30	.10
Red	1.25	.30	.10
Salmon	1.25	.30	.10
White	1.25	.30	.10
Yellow	1.25	.30	.10
Choice Mixed	1.00	.25	.10
Single Mixed	1.00	.20	.10
Imported Collection. 6 colors.....			.40
Imported Collection. 12 colors.....			.75
Allegheny. Semi-double; mammoth flowers, edges fringed and laciniated; mixed.....oz., \$1.00	.25	.10	

ANNUAL EVERBLOOMING HOLLYHOCK

While these are also hardy perennial varieties, if seed is sown in the house in March or April they will bloom the first season.

Double Ever-blooming Mixed. Colors range from white to deep black, yellow, pink, red, purple; oz., \$1.25 .30 .15

Single Ever-blooming Mixed. Differ from above only in the flowers being single.....oz., \$1.00 .25 .10

*Impatiens Sultani***HONESTY** (Moonwort, Satin Flower)

Hardy biennial, admired for its silvery seed pods, which are used for ornamental purposes; 2 feet Large Pkt. Pkt.
\$0.15 \$0.05

HORDEUM (ORNAMENTAL GRASS) (See page 90)**HUMULUS** (Japanese Hop)

A rapid growing annual climber with luxuriant foliage.

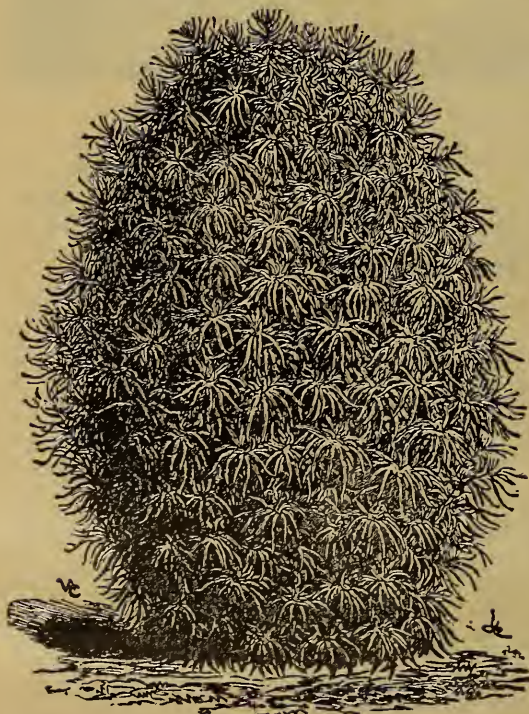
Japonicus. Dense green foliage..... Oz. Large Pkt. Pkt.
\$0.40 \$0.15 \$0.05
Variegatus. Leaves mottled with white. .50 .15 .10

HUNNEMANNIA (Giant Yellow Tulip Poppy)

Fumariaefolia. Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles *Eschscholtzia*; height, 2 ft.; oz., 60c. .15 .10

HYACINTH BEAN (See *Dolichos*)

See pages 66 to 72
for NOVELTIES and
SPECIALTIES

*Kochia Trichophylla***IMPATIENS** (Sultan's Balsam)

A charming plant for house and conservatory decoration.

Holstii. A new variety from Africa, resembling *Impatiens Sultani* in leaf and shape of bloom, but surpassing it in quicker growth and its larger and brighter colored flowers..... Large Pkt. Pkt.
\$0.50 \$0.20
Holstii, "New Hybrids." The colors offered in these New Hybrids are beautiful and of many shades50 .15
Sultani. Brilliant rosy-scarlet..... .50 .15
Sultani Hybrida. Colors ranging from pale pink to dark crimson50 .15

INCARVILLEA (Hardy Gloxinia)

Delavayi. Deeply cut hairy foliage with stout stalks terminated with 3 to 5 most beautiful pink, gloxinia-like flowers; perennial; May; 15 inches50 .25

*Ipomoea* (Moon Flower)**IPOMOEA**

Grandiflora Superba. Flowers sky-blue with a white margin..oz., 25c. Large Pkt. Pkt.
\$0.15 \$0.05
Heavenly Blue. Large, sky-blue flowersoz., 75c. .20 .10
Noctiflora (Moon Flower). At night and during dull days the plants are covered with an abundance of large, pure white fragrant flowers.
oz., 75c. .20 .10
Setosa (Brazilian Morning Glory). Large leaves and bright rose-colored flowersoz., 40c. .15 .05
Mixed. Various colorsoz., 25c. .15 .05

IRIS (Flowering Flag)

Kaempferi (Japanese Iris). Hardy perennial; very showy; blooms the second year from seed; mixed colors..... .20 .10

KENILWORTH IVY (*Linarla Cymbalaria*)

A charming, neat trailing plant, for baskets, vases pots, etc.; flowers violet30 .05

KOCHIA (Summer Cypress or Mexican Fire Bush)

Trichophylla. An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at the approach of autumn the foliage turns to a deep red color; 2 to 3 feet..... .15 .10

LANTANA

Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March; flowers resemble *Verbenas*; plants grow erect and remain in bloom all summer.

Dwarf Mixed. 10 inches high; all colors..... Large Pkt. Pkt.
\$0.20 \$0.10
Choice Tall Mixed. 2 to 3 feet high.....oz., 30c. .15 .10



LARKSPUR (Annual)

Splendid annuals of easy culture; seed sown early in spring will produce blooming plants by July; graceful fern-like foliage and slender spikes with double rosette flowers; fine for cutting or garden decoration.

GIANT HYACINTH FLOWERED

Tall spikes with double flowers resembling Hyacinths.

1226 Queen of Pinks. It is the color which gives this variety a foremost place in any garden; spikes fully 2 feet tall and well branched; color, delicate salmon pink	Oz.	Lge. pkt.	Pkt.
.....	\$0.75	\$0.20	\$0.10
1222 Shell Pink .....	.50	.15	.05
1223 White .....	.50	.15	.05
1221 Dark Blue .....	.50	.15	.05
1224 Mixed Colors .....	.40	.15	.05

TALL DOUBLE STOCK FLOWERED

Plants branch freely and the flowers resemble double stock; height, 2½ feet.

1202 Dark Blue	Oz.	Large pkt.	Pkt.
.....	\$0.50	\$0.15	\$0.10
1203 Sky Blue .....	.50	.15	.10
1206 Shell Pink .....	.50	.15	.10
1209 White .....	.50	.15	.10
1207 All Colors Mixed .....	.40	.15	.05

DWARF DOUBLE ROCKET

1205 Mixed. A compact bushy plant with several dwarf spikes of double flowers; height, 1 foot25	.15	.05
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For Perennial Larkspur, see Delphinium, page 87



Lathyrus (Everlasting Pea)

LATHYRUS LATIFOLIUS

(Everlasting or Perennial Pea)

Free flowering, resembling Sweet Peas in growth, foliage and flowers; excellent for cutting.

1210 Crimson. Brilliant	Oz.	Large pkt.	Pkt.
.....	\$0.50	\$0.15	\$0.10
1212 Pink Beauty. Bright rosy-pink .....	.75	.15	.10
1214 White .....	.50	.15	.10
1216 Choice Mixed. All colors .....	.40	.15	.05

LAVATERA

Large Pkt.

1218 Splendens Rosea. A compact shrubby-like annual plant with glossy foliage and bright pink mallow-like flowers; splendid for cutting and decorative work; easily raised from seed..	\$0.20	\$0.10
--	--------	--------

LAVENDER (Lavendula Vera)

1220 Well-known hardy perennial, bearing long spikes of fragrant blue flowers; 18 inches.....	Oz.	75c.	.15	.05
---	-----	------	-----	-----



Double Stock Flowered Larkspur

LIATRIS (Blazing Star or Gay Feather)

Lge. pkt. Pkt.

1227 Pycnostachia. Showy and attractive perennial plants, with long spikes of rosy purple flowers; July to September; 3 to 4 feet	\$0.50	\$0.10
---	--------	--------

LINARIA See Kenilworth Ivy

LILY OF THE VALLEY (Convallaria Majalis)

1225 Lovely plants, bearing pure white, fragrant, bell-shaped flowers early in spring40	.10
---	-----	-----

LINUM (Scarlet Flax)

1230 Grandiflorum Rubrum. Ideal for bedding; dwarf and compact, with light green foliage and bright scarlet flowers; annual; 1 foot; oz. 25c.	.15	.05
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LOPHOSPERMUM



Lobelia, Barnard's Perpetual

Scandens. An ornamental annual climber, with showy rosy-purple flowers, resembling Fox-gloves in shape; 10 feet \$0.40 \$0.10

LYCHNIS

Hardy perennial plants of easy culture; most effective in beds or borders.

Chalcedonica (Rose Campion). Large Pkt. Pkt.

Fine scarlet cross-like flowers; 2 feet; July....oz., 40c. \$0.15 \$0.05

Flos Cuculi (Cuckoo Flower). Beautiful, bright red, fringed flowers; 2 feet30 .10

Haageana. Brilliant, large, orange, scarlet, pink and crimson flowers, mixed; 1 foot20 .10

LOBELIA

No garden is complete without an edging of blue Lobelia, and for a long season of bloom there is nothing that can take its place; also desirable for pots, hanging baskets, etc.

	Large Pkt.	Pkt.
Crystal Palace Compacta. Very compact deep blue, the best for edging.....	\$0.40	\$0.10
Barnard's Perpetual. Deep blue with white eye; trailing .....	.30	.10
Crystal Palace Speciosa. Of trailing habit, deep blue, fine for vases.....	.20	.05
Sapphire (New). A beautiful trailing variety; deep blue with white eye.....	.50	.20
Double Flowering. Small double deep blue flowers, resembling little violets.....	.65	.10
Emperor William. Flowers sky blue, plants very compact .....	.30	.10
Gracilis. Of trailing habit, light blue.....	.20	.05
White Gem. Very compact, snow-white flowers. ....	.30	.10
Mixed. All colors .....	.20	.05
Cardinalis (Cardinal Flower). Hardy perennial; tall spikes of bright scarlet flowers, very showy....	.50	.10

Ask for
Cultural
Leaflet No. 217
on the
GROWING
OF
LUPINUS



Lupinus

LUPINUS (Lupin)
ANNUAL VARIETIES

Free flowering, easily grown plants with long spikes of pea-shaped flowers; excellent for cutting; will bloom in six weeks after sowing; 2 feet.

	Oz.	Large Pkt.	Pkt.
Pink Beauty. Delicate salmon pink	\$0.50	\$0.15	\$0.10
Blue .....	.30	.15	.05
Pink .....	.30	.15	.05
Red .....	.30	.15	.05
Scarlet, White Tipped .....	.30	.15	.05
White .....	.30	.15	.05
Yellow .....	.40	.15	.10
Mixed, All Colors .....	.20		.05

PERENNIAL VARIETIES

Graceful spikes with pea-shaped flowers; excellent for cutting; May and June; 2 to 3 feet.

	Large Pkt.	Pkt.
Polyphyllus Roseus. Pink	\$0.20	\$0.10
" Blue .....	.15	.05
" White .....	.15	.05
Perennial Mixed	oz., 30c.	.15 .05

LYTHRUM

Roseum Superbum (Rose Loose Strife). A pretty hardy perennial; plants grow 3 feet high and produce spikes of rosy flowers from July to September15 .10

MARIGOLD (See Next Page)

MARVEL OF PERU (Four O'clocks)

Choice Mixed. Bushy plants of easy culture, producing hundreds of flowers during the entire summer; very showy in the garden; 2 feet.... \$0.15 \$0.05

MAURANDIA

A beautiful climber of rapid growth for baskets, vases and trellises; produces an abundance of tube-shaped flowers; 10 feet.

	Large Pkt.	Pkt.
Barclayana. Purple	\$0.30	\$0.10
Choice Mixed .....	.30	.10



Marvel of Peru (Four O'clocks)



Marigold—El Dorado

MARIGOLD (Tagetes)

Popular free-blooming garden plants of easiest possible culture.

AFRICAN VARIETIES

These are mostly of tall growth, from 2½ to 3 feet high.

- | | | |
|--|------------|---------------|
| 1296 El Dorado. Imbricated flowers of immense size | Large pkt. | Pkt. |
| in all shades of yellow | oz. 40c. | \$0.15 \$0.05 |
| 1307 Orange Prince. Flowers very large, of a deep | | |
| orange color | oz. 75c. | .20 .10 |
| 1303 Lemon Queen. Soft lemon yellow..... | oz. 75c. | .20 .10 |
| 1308 Pride of the Garden. Dwarf, 18 inches, golden | | |
| yellow | oz. 60c. | .20 .10 |
| 1300 Large African. Tall double mixed..... | oz. 30c. | .15 .05 |
| 1311 Imported Collection, 6 Varieties | | .25 |

FRENCH VARIETIES

Of compact dwarf growth with velvety flowers.

- | | | |
|---|------------|---------------|
| 1290 Double Pulchra. Rich golden yellow with deep | Large pkt. | Pkt. |
| velvety brown centre; 1 foot..... | oz. 30c. | \$0.15 \$0.05 |
| 1294 Dwarf Gold Striped. Double, brownish red | | |
| striped golden yellow; 1 foot | oz. 40c. | .15 .10 |
| 1302 Legion of Honor (Little Brownie). Single flow- | | |
| ers of golden yellow with a large spot of crim- | | |
| son velvet; 6 inches | oz. 35c. | .15 .05 |
| 1306 Liliput. Dwarf; excellent for pots; small double | | |
| flowers; mixed colors; 4 inches | oz. 60c. | .20 .10 |
| 1292 Dwarf French Mixed. All colors..... | oz. 30c. | .15 .05 |
| 1310 Imported Collection, 6 Varieties | | .25 |

MARVEL OF PERU. (See page 94.)

MATTHIOLA

- 1318 Bicornis (Evening Scented Stock). A desirable annual, on account of its delightful fragrance during the evening; color, purplish lilac..... .15 .05

MAURANDIA. (See page 94.)

MESEMBRYANTHEUM

Dwarf trailing annuals for rockeries, edgings and vases.

- | | | |
|--|------------|--------|
| | Large pkt. | Pkt. |
| 1330 Cordifolium Variegatum. Variegated foliage; | | |
| rose-colored flowers | \$0.30 | \$0.10 |
| 1331 Crystallinum (Ice Plant). Singular icy foliage; | | |
| flowers white | .15 | .05 |
| 1332 Tricolor (Wax Plant). Various colors..... | .15 | .05 |

MIGNONETTE

Valuable for cutting on account of its fragrance; sow in succession during the whole summer; may also be forced in green-houses during winter.

Large Pkt. Pkt.

- | | | |
|---|----------|---------|
| 1356 Michell's Colossal. Foliage, stalks and flowers | | |
| are very robust. The flower-spikes often aver- | | |
| age 18 inches; extremely fragrant..... | \$0.50 | \$0.15 |
| 1340 Allen's Defiance. Spikes invariably attain a | | |
| height of 12 to 15 inches; fragrant; oz. 60c. | .20 | .10 |
| 1354 Hoehl's Giant Flowering. Very large..... | .65 | .15 |
| 1345 Bismarck. Compact plant of strong growth, | | |
| stout spikes of large flowers | .25 | .10 |
| 1355 Machet. Large reddish tinted, sweet scented | | |
| flowers | oz. 50c. | .15 .10 |
| 1349 Golden Machet. Large golden flowers; oz. 50c. | .15 | .10 |
| 1352 Goliath. Giant spikes of brilliant red flowers.. | .20 | .10 |
| 1363 Sutton's Giant. Reddish buff, original pkts. .. | | .30 |
| 1357 Miles' Spiral. Flowers whitish | oz. 25c. | .15 .05 |
| 1359 Parson's White. Large fragrant white flowers; | | |
| oz. 35c. | .15 | .05 |
| 1365 Sweet Scented. The popular garden sort; | | |
| oz. 15c. | | .05 |
| 1367 Imported Collection, 10 Varieties | | .50 |



**MIMULUS**

Showy profuse flowering plants; fine for greenhouse or moist shady situations; half-hardy perennials, blooming the first year if sown early.

Moschatus (*Musk Plant*). Fine for hanging baskets; yellow flowers, fragrant foliage; 6 inches. Large Pkt. Pkt. \$0.30 \$0.05
Tigrinus (*Monkey Flower*). Fine mixed tigered and spotted varieties; 1 foot. .30 .05

MINA

Lobata. Half hardy annual climber, of rapid growth, bearing racemes of flowers, the buds of which are orange red, but open orange yellow, and afterwards turn to creamy white. .30 .10

MONARDA (*Bergamot*)

Didyma. Tall plants crowned with whorls of salvia-like, deep scarlet flowers; very showy and attractive; 4 feet; July-August. .65 .15

MOON FLOWER See *Ipomoea*
MORNING GLORY See *Convolvulus*



Myosotis-Alpestris Victorica

MYOSOTIS (*Forget-Me-Not*)

Beautiful, half hardy perennials, blooming the first year from seed; succeeding best in moist, shady situations. Sown in the spring they will flower in the fall; if wanted for early spring flowering, seed should be sown in frames in July or August.

Alpestris Victoria. Of bushy habit; bearing large bright blue flowers; very fine; 6 inches. Large Pkt. Pkt. \$0.30 \$0.10
Dissitiflora. Deep green foliage and attractive deep blue flowers. .40 .10
Eliza Fanrobert. Of strong growth, with clusters of large, bright blue flowers; 10 inches. .20 .10
Grandiflora Alba. Large white flowers; 8 inches. .25 .10
Grandiflora Rosea. Large pink flowers; 8 inches. .25 .10
Palustris. The true Forget-Me-Not; bright blue flowers; 8 inches. .40 .10
Palustris Semperflorens. Dwarf; blooms the entire season; deep blue. .30 .10
Royal Blue. This variety belongs to the upright pillar-shaped section; large deep blue flowers; 12 inches. .40 .10
Ruth Fischer. Plant of neat, compact habit; flowers extra large and of a lovely sky blue; splendid for pots. .65 .25
Choice Mixed. .20 .05

MUSA ENSETE (*Abyssinian Banana*)

A handsome tropical plant for planting individually or for the centre of beds; foliage broad and massive and very effective; 10 to 15 feet. Seeds should be started in hot-bed or bottom heat in greenhouse. Per 10 seeds, 25c.; 50c. per 25 seeds.

NASTURTIIUM See pages 97 and 98**NEMOPHILA** (*Love Grove*)

Mixed. Free-flowering annual, of dwarf, compact habit, with a profusion of cup-shaped, bright colored flowers; thrives best in a cool, shady situation; 1 foot. Large Pkt. Pkt. \$0.15 \$0.05

NEMESIA

Strumosa Suttoni. A splendid annual, with large flowers varying in color from creamy white to deep orange and carmine; fine for bedding; 18 inches. .40 .15



Nicotiana (Flowering Tobacco)

NICOTIANA (*Flowering Tobacco*)

Extremely showy annual plants, giving a continuous display of brilliant flowers through the summer and autumn; plants are of branching habit; 2 to 3 feet high.

Affinis. Fragrant, tube-shaped, pure white flowers. Large Pkt. Pkt. \$0.15 \$0.05
Affinis Hybrida. Large flowered, sweet scented hybrids; colors range through creamy white and rose tints to bright red and crimson. .20 .10
Sanderae. An excellent variety, growing about 2 feet high; flowers of the most handsome carmine-red color; very fragrant. .20 .10
Sylvestris. A very ornamental variety with deep green leaves, and large, pure white fragrant, drooping flowers; 4 feet. .15 .10

NIEREMBERGIA

Frutescens. Half hardy perennial; excellent for greenhouse, baskets, vases, or bedding out; flowers white tinted with lilac; 1 foot. .20 .10

Reading, Pa., April 24th, 1915.

Gentlemen:—

It is a pleasure to me to state that during my eighteen years as a gardener I never had any seeds that germinated better than yours. This spring I sowed over 70 varieties of flower seeds and every one came up.

Please send me _____

Yours very truly,

A. L.
Care of J. D. H.

Nasturtiums are among the best known and most popular of hardy annuals, and within the past few years have been greatly improved in size, as well as in colors and markings. Easily grown, and producing a great profusion of brightly colored flowers from within a few weeks after they are sown until they are killed by frost; they succeed best in rather light, well drained soil.

Hollidaysburg, Pa., May 7, 1915.
Gentlemen:—

The flowers I raised from your seeds last year were beautiful and much admired by everyone who saw them.

Yours truly,
Mrs. M. K. H.

Gladstone, Mich., March 15, 1915.
Gentlemen:—

Enclosed find money order to cover above order of seeds. Your flower seeds were received and planted and are now potted up and growing vigorously; it is a great satisfaction to have such perfect seeds.

Yours truly,
F. K.



DWARF OR BEDDING

(TOM THUMB)

Of dwarf, compact growth; excellent for borders or for bedding, forming plants about 1 foot high by 1 foot across.

Michell's Fancy Giant Mixed. This is one of the finest mixtures, composed of the largest and finest named varieties, and cannot be surpassed for brilliancy of color.

¼ lb.	Oz.	Pkt.
Per lb., \$1.35.....	\$0.45	\$0.20 \$0.10

Choice Mixed. Comprising a large variety of brilliant colors. Lb., \$1.00.....

.30	.15	.05
-----	-----	-----

Liliput Mixed. A fine variety of very dwarf and compact growth, and producing in the greatest profusion flowers of many new and beautiful colors.....

.50	.20	.05
-----	-----	-----

Ivy Leaved Mixed. Ivy-like, deep green foliage; flowers beautifully fringed and of a remarkable range of colors.....

.60	.20	.10
-----	-----	-----

Queen of Tom Thumbs Mixed. Silver variegated foliage; flowers in a great variety of colors

.60	.20	.10
-----	-----	-----

Queen of Tom Thumbs, Crimson. Silver variegated foliage and rich, bright crimson flowers

.75	.25	.10
-----	-----	-----

Golden Foliage Mixed. The golden yellow foliage and the flowers of many colors make a beautiful contrast.....

.50	.15	.10
-----	-----	-----

David Burpee Spencer. Compact plants with emerald green leaves which are wavy and ruffled; flowers deep scarlet on long stems

.90	.30	.10
-----	-----	-----

Aurora. Rich yellow, veined carmine.....

.40	.15	.05
-----	-----	-----

Beauty. Yellow, with scarlet veinings.....

.40	.15	.05
-----	-----	-----

Bronze. Burnished bronze color.....

.40	.15	.05
-----	-----	-----

Chameleon. Produces various colors and markings on the same plant.....

.40	.15	.05
-----	-----	-----

Cloth of Gold. Bright golden yellow leaves and brilliant scarlet flowers.....

.40	.15	.05
-----	-----	-----

Crystal Palace Gem. Sulphur yellow, spotted maroon

.40	.15	.05
-----	-----	-----

Empress of India. A splendid variety, with dark leaves and crimson flowers.....

.40	.15	.05
-----	-----	-----

Michell's Fancy Nasturtiums

	¼ lb.	Oz.	Pkt
Golden King. Dark foliage; rich, golden yellow flowers	\$0.40	\$0.15	\$0.05
Golden Queen. Foliage and flowers golden yellow .....	.40	.15	.05
King of Tom Thumbs. Dark green foliage; scarlet flowers .....	.40	.15	.05
King Theodore. Dark foliage; flowers crimson maroon .....	.40	.15	.05
Lady Bird. Rich orange yellow, with a red blotch at the base of the petals.....	.40	.15	.05
Pearl. Creamy white .....	.40	.15	.05
Pink. Soft rose color.....	.40	.15	.05
Prince Henry. Cream, spotted and tipped red .....	.40	.15	.05
Scarlet. Brilliant .....	.40	.15	.05
Spotted. Rich yellow, spotted crimson....	.40	.15	.05
Vesuvius. Salmon rose.....	.40	.15	.05
Yellow. Bright shade .....	.40	.15	.05
Imported Collection. 12 dwarf varieties.....			.50

Ask for Cultural Leaflet No. 219 on the growing of Nasturtiums.

For Tall or Climbing Nasturtiums, see next page.

MICHELL'S COLLECTIONS OF NASTURTITIUMS

One packet each 12 Dwarf Sorts.....	\$0.50
One packet each 6 Dwarf Sorts.....	.25
One ounce each 12 Dwarf Sorts.....	1.25
One ounce each 6 Dwarf Sorts.....	.75
One packet each 12 Tall Sorts.....	.50
One packet each 6 Tall Sorts.....	.25
One ounce each 12 Tall Sorts.....	1.25
One ounce each 6 Tall Sorts.....	.75

TALL OR CLIMBING NASTURTIUMS

For covering trellises, fences, arbors, piazzas, trailing from vases, over rockwork, etc., nothing can equal the gorgeous effect produced by their great quantities of bloom from early summer until frost; height, 8 to 10 feet.

Michell's Fancy Giant Mixed. This mixture cannot be excelled for large size and beautiful colors of the flowers. Composed of the largest and finest varieties. Per lb., ¼ lb. Oz. Pkt.

\$1.35	\$0.45	\$0.20	\$0.10
Choice Mixed. Lb., \$1.00.....	.30	.15	.05
Queen of Talls, Mixed. Silver variegated foliage, flowers of all colors.....	.50	.15	.10
Ivy Leaved Mixed. Ivy-like, deep green foliage; flowers beautifully fringed.....	.50	.20	.10
Hybrids of Mad. Gunther. A special strain; all shades and colors. Per lb., \$1.00.....	.40	.15	.05
Chameleon. Produces different colored flowers on the same plant.....	.40	.15	.05
Crimson. Rich and velvety.....	.40	.15	.05
Hemisphaericum. Different shades of orange-salmon and scarlet.....	.40	.15	.05
Jupiter. Color, pure deep yellow, with crinkled petals; of immense size.....	.40	.15	.05
King Theodore. Dark foliage and flowers.	.40	.15	.05
Orange. A deep shade.....	.40	.15	.05
Prince Henry. Cream, spotted and tipped red .....	.40	.15	.05
Pearl. Creamy white.....	.40	.15	.05
Pink. Soft rose color.....	.40	.15	.05
Scarlet. Very bright.....	.40	.15	.05
Vesuvius. Salmon pink.....	.40	.15	.05
Yellow .....	.40	.15	.05
Imported Collection. 12 tall varieties.....			.50

DWARF NASTURTIUMS are offered on page 97



Nigella—Miss Jekyll



Michell's Giant Tall Nasturtium

LOBB'S CLIMBING NASTURTIUMS

(Tropaeolum Lobbianum)

These are exceedingly free-flowering and of the most brilliant colors, with neat dark green foliage; excellent for window boxes, vases, hanging baskets, and rockeries; also for greenhouse or conservatory during the winter; 8 to 10 feet.

Choice Mixed. Lobb's varieties, all colors. ¼ lb.	Oz.	Pkt.
Per lb., \$1.25	\$0.40	\$0.15 \$0.05
Asa Gray. Yellowish white.....	.50	.20 .05
Brilliant. Glowing scarlet flowers.....	.50	.20 .05
Giant of Battles. Sulphur yellow, blotched carmine .....	.50	.20 .05
Golden Queen. Golden yellow.....	.50	.20 .05
Roi des Noirs. Dark garnet red.....	.50	.20 .05
Rudolph Virchow. Soft rosy pink.....	.50	.20 .05
Spitfire. Brilliant scarlet.....	.50	.20 .05
Collection. One packet each of above 7 Lobb's varieties for 30c.		
Ask for Cultural Leaflet No. 219 on the growing of Nas- turtiums.		

NIGELLA (Love in a Mist)

Damascena. Showy hardy annual of compact growth, with finely cut foliage and curious flowers, blue and white mixed; 1 foot.....

\$0.15	\$0.05
--------	--------

Miss Jekyll. A lovely variety, with long stems, and bearing a profusion of beautiful flowers of a clear corn-flower blue; excellent for cutting; 18 inches

.15	.10
-----	-----

OENOTHERA (Evening Primrose)

Mixed. Beautiful annual of easy culture, producing freely large, single Poppy-like flowers of various colors, which open early every evening and lasting well into the following day... .15 .05



MICHELL'S GIANT PANSIES

MICHELL'S GIANT PANSIES

SEPARATE COLORS

A strain secured from the leading Pansy specialists, and not to be compared with the ordinary Giant Trimardeau, as the flowers are of much heavier texture. ¼ oz. Large pkt. Pkt.

1535	Giant Prize Azure Blue.	Violet blue.	\$1.00	\$0.50	\$0.15
1537	"	Black Blue.	Dark velvety	1.00	.50 .15
1539	"	Emperor William.	Ultra-marine blue	1.00	.50 .15
1541	"	Hortensia Red.	Scarlet.	1.25	.50 .15
1543	"	King of the Blacks.	Black	1.00	.50 .15
1545	"	Lord Beaconsfield.	Violet	1.00	.50 .15
1549	"	Peacock.	Upper petals blue, lower petals deep claret; white margin.	1.25	.50 .15
1551	"	Snow Queen.	Pure white	1.00	.50 .15
1553	"	Striped and Mottled	...	1.00	.50 .15
1557	"	White with dark eye	...	1.00	.50 .15
1559	"	Pure Yellow	...	1.00	.50 .15
1561	"	Yellow with dark eye	...	1.00	.50 .15

SPECIAL OFFER. We will send 6 packets of any of the above varieties of Giant Pansies for 75c.; or the entire 12 pkts. for \$1.40.

PANSIES—Regular Sorts in Separate Colors

		Oz.	Large pkt.	Pkt.
1565	Belgian Striped.	Showy	\$1.50	\$0.30 \$0.10
1567	Emperor William.	Ultramarine blue.	1.50	.30 .10
1569	Faust (King of the Blacks).	Almost black	1.50	.30 .10
1571	Gold Margined.	Purple, golden edge	1.50	.30 .10
1573	Havana Brown	...	1.50	.30 .10
1575	Lord Beaconsfield.	Violet	1.50	.30 .10
1577	Mahogany Colored	...	1.50	.30 .10
1579	Silver Edged.	Purple, silver edge	1.50	.30 .10
1581	Snow Queen.	Pure white	1.50	.30 .10
1583	White with dark eye	...	1.50	.30 .10
1585	Yellow Gem.	Pure yellow	1.50	.30 .10
1587	Yellow with dark eye	...	1.50	.30 .10

SPECIAL OFFER. We will send 6 packets of any of the above varieties of regular sorts of Pansies for 50c.; or the entire 12 packets for 90c.

PAEONY

Large pkt. Pkt.

- 1534 **Mixed.** Hardy herbaceous plants with flowers of various colors; will bloom the third year from seed; double and semi-double. \$0.30 \$0.10

PARIS DAISY. See Chrysanthemum

PASSIFLORA (Passion Flower)

- 1630 **Mixed.** Ornamental climbing plants for the green house or the garden, producing showy flowers in profusion. .25 .10

PENNISETUM, ORNAMENTAL GRASS. (See page 90.)

PAPAVER. See Poppy.

PENTSTEMON (Beard Tongue)

A beautiful perennial plant producing large spikes of handsome flowers.

Large pkt. Pkt.

- 1643 **Barbatus Torreyi.** Spikes of brilliant coral red, very effective; June to August; 3 to 4 feet. \$0.15 \$0.10
- 1646 **Digitalis.** Spikes of white flowers, with purple throat; July and August. .15 .10
- 1647 **Hartwegi Albus (New).** Large, open throated, gloxinia-like blooms, clear white, 2½ feet. Original pkt. .40 .15
- 1644 **Sensation.** Plants producing large spikes of gloxinia-like flowers of the most brilliant and varied colors; will bloom the first season if sown early; 2 feet; requires protection. .40 .15
- 1645 **Mixed.** Producing large spikes of handsome flowers; 3 feet. .15 .05

Michell's Giant Exhibition Pansy

Strictly considered, this is a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which pansies can be planted. If started in the house from February till April pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the fall; sown in frames during July and August and transplanted later gives us the main crop of flowers the following spring. Pansies thrive best in moist semi-shady situations.

PANSIES IN MIXTURES

Large pkt. Pkt.

- 1595 **Michell's Giant Exhibition.** A blending of our own containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. Per oz., \$6.00; ¼ oz., \$1.00. \$0.65 \$0.25
- 1608 **Triumph of the Giant.** Immense flowers of great brilliancy and richness of coloring, including many new and rare shades. Per oz., \$8.00; \$2.25 per ¼ oz. .75 .50
- 1597 **Bugnot, Odier and Cassier.** A superb mixture of giant blotched varieties. ¼ oz. \$1.00 .65 .25
- 1599 **Giant Trimardeau.** Very large flowering; all colors mixed. ¼ oz. \$0.50 .40 .10
- 1600 **Mad. Perret.** Early flowering, fragrant, especially rich in red shades. ¼ oz. \$1.25 .65 .25
- 1601 **Masterpiece (Frisled Pansy).** Flowers beautifully curled or waved. ¼ oz. \$1.50 .65 .25
- 1605 **Odier or Blotched.** Beautiful strain. ¼ oz. \$1.25 .65 .15
- 1607 **Parisian Large Stained.** Choicest colors. ¼ oz. \$0.75 .50 .15
- 1609 **Finest English Mixed** .oz. \$1.50 .30 .10
- 1611 **Very Fine Mixed** .oz. .75 .20 .05
- 1613 **Imported Collection.** 6 colors. .40
- 1614 **Imported Collection.** 12 colors. .75

Ask for Cultural Leaflet No. 209 on Pansies



PETUNIA

There is no more deserving flower than the Petunia. Quick to bloom in the early summer, it gives us a bright display long after the first frost has wrought its damage; seeds must be carefully handled as they are extremely fine but the plants are of easiest culture.

SINGLE FLOWERED PETUNIAS

	Large pkt.	Pkt.
1657 California Giants. One of the largest varieties; bright and desirable colors; strong robust plants.....	\$0.65	\$0.25
1665 Grandiflora Fringed. Each petal of these giant flowers is delicately fringed and thus gives the flower a distinct appearance; all colors..	.65	.20
1669 Ruffled Giants. Immense large flowers, exquisitely ruffled and frilled.	.65	.25
1666 Monstrosus (Michell). Extra large flowers, many of which are elegantly fringed; superb colors.....	.75	.25
1664 Dwarf Large Flowering Fringed (New). Compact plants with large fringed flowers of many colors and shades. Orig. pkt.....		.30
1674 Undine (New). Color, azure blue with lilac margin. Orig. pkt.....		.25
1655 Adonis. Rosy carmine with white throat .....	.40	.10
1663 Dwarf Inimitable. Of dwarf, compact habit; profuse bloomer; flowers striped .....	.40	.10
1662 Enchantress (see illustration). A new dwarf variety, almost covered with flowers from early summer until killed by frost; the flowers are of many shades and colors....	.40	.10
1672 Pepita. Fringed flowers of deep scarlet with a white border.....	.65	.25
1668 Rosy Morn. Dwarf, bushy plants bearing in great profusion brilliant rose-colored flowers with a white throat; excellent for pot culture..	.40	.15



Double Fringed Petunia



Petunia—Grandiflora Fringed

	Large pkt.	Pkt.
1671 Snowball. Compact habit; flowers pure white.	\$0.40	\$0.10
1673 Star (Howard's). A beautiful variety; produces a profusion of crimson-maroon flowers, with a distinct five-pointed white star.	.40	.15
1675 Choice Mixed. Striped and blotched; oz., \$1.00	.30	.10
1677 Fine Mixed. All colors.....oz., \$0.75	.20	.05
1679 Imported Collection. Single fringed, 6 varieties		.50
1680 Imported Collection. Single fringed, 12 varieties		1.00

DOUBLE FLOWERING PETUNIAS

As the seed of the double varieties is obtained by hybridization, it will not produce all double flowers, but the singles will be unusually fine. The weaker seedlings should receive great care, as they produce the finest double flowers.

1659 Double Fringed White. Extra large, pure white, fringed flowers	Lga. Pkt.	Pkt.
	\$0.75	\$0.25
1661 Double Fringed Mixed. Selected and hybridized with the greatest care; flowers of large size, beautifully fringed and of choicest colors. Per 500 seeds, \$1.00.....		.25
1682 Imported Collection. Double fringed, 6 varieties...		.75



Petunia—Enchantress

Ask for
Cultural
Leaflet
No. 205
on the
Growing
of
Petunias



VARIOUS PHLOXES

- Large pkt. Pkt.
Fine Mixed. Free flowering; all colors.
oz., 60c. \$0.20 \$0.05
Double Mixed. Flowers with several
rows of petals; fine for cutting..... .30 .10
Star of Quedlinburg. Beautiful star-
shaped flowers of various colors, with
long pointed petals25 .10

HARDY PHLOX

- Decussata. For a gorgeous show these
are the most satisfactory of all peren-
nials; plants 2 feet high; flowers in all
bright colors; seed should be sown
early in spring or as soon as gathered
in the autumn; mixed colors. ¼ oz., 50c. .30 .10

FOR HARDY PHLOX PLANTS

See pages 168 and opposite page 169.

PERILLA

- Large pkt. Pkt.
Nankinensis. Ornamental annual plants
with dark purple foliage; 2 feet..... .15 .05

PHYSOSTEGIA (False Dragon Head)

A pretty hardy perennial, bearing freely, delicate
tubular flowers; 3 to 4 feet; July-August.

- Large pkt. Pkt.
Virginica. Pink \$0.20 \$0.10
Virginica Alba. White30 .10

PINKS See Carnations and Dianthus



Phlox Drummondii, Grandiflora

PHLOX DRUMMONDII

One of our finest hardy annuals, and one of the easiest to
grow, and for bedding or massing nothing can surpass them
for their brilliancy and richness of color and profusion of
bloom, which continues until frost.

GRANDIFLORA VARIETIES

An improved strain, with immense trusses of large, bril-
liant flowers; 12 to 15 inches.

- | | Large pkt. | Pkt. |
|---|---------------|--------|
| Alba. Pure white | \$0.30 | \$0.10 |
| Coccinea. Brilliant scarlet | .30 | .10 |
| Pink | .30 | .10 |
| Stellata Splendens. Scarlet with white eye..... | .30 | .10 |
| Choice Mixed. All colors..... | oz., 75c. .25 | .10 |
| Imported Collection. 12 varieties..... | | .75 |

DWARF VARIETIES

These grow to the height of 6 to 8 inches, and produce
dense masses of bloom all summer. Excellent for bedding
or edging.

- | | Large pkt. | Pkt. |
|--|-----------------|--------|
| Cecily, Mixed. Large flowering, dwarf compact
variety, of many beautiful colors and shades... | \$0.40 | \$0.10 |
| Crimson with White Eye..... | .30 | .10 |
| Deep Scarlet | .30 | .10 |
| Fair Maid. Soft pink | .30 | .10 |
| Fireball. Brilliant scarlet | .30 | .10 |
| Pink | .30 | .10 |
| Snowball. Pure white | .30 | .10 |
| Violet with White Eye | .30 | .10 |
| Choice Mixed | ¼ oz., 50c. .30 | .10 |

Ask for Cultural Leaflet No. 218 on the growing of
Phlox Drummondii.

PLATYCODON

(Chinese Bell Flower)

Grandiflorum, Blue. A hardy
perennial bearing a pro-
fusion of large bell-shaped
flowers the whole season;
2 to 3 feet. Pkt., 5c.; 15c.
per large pkt.

Grandiflorum White. Pkt.,
5c.; 15c. per large pkt.

Japonicus Fl. Pl. (Double Jap-
anese Bell Flower). Large,
glossy, deep blue flowers.
Pkt., 15c.; 40c. per large
pkt.

POLYANTHUS

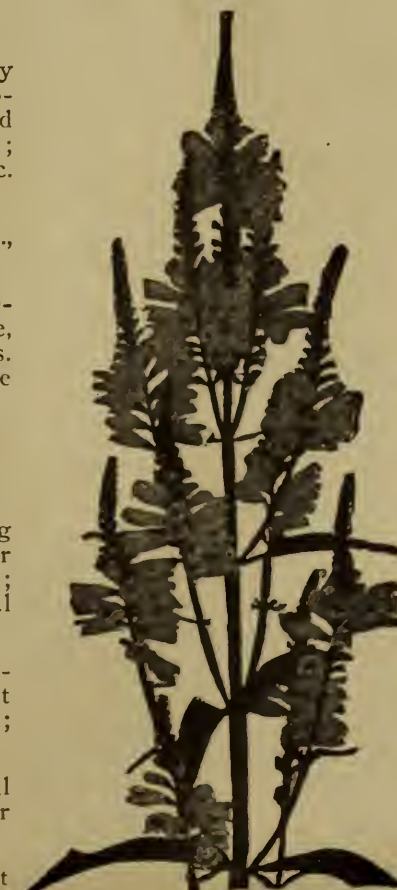
(Primula Elatior)

Beautiful spring flowering
hardy perennials, either for
pot culture or for garden;
succeeds best in partial
shade; 9 inches.

Gold Laced. Flowers of bril-
liant colors, with distinct
yellow edge. Pkt., 15c.;
50c. per large pkt.

Double Mixed. Beautiful
colors. Pkt., 15c.; 65c. per
large pkt.

English Mixed. The best
single. Pkt., 10c.; 30c. per
large pkt.



Physostegia

MICHELL'S POPPIES



Shirley Poppies

POPPY, ANNUAL VARIETIES

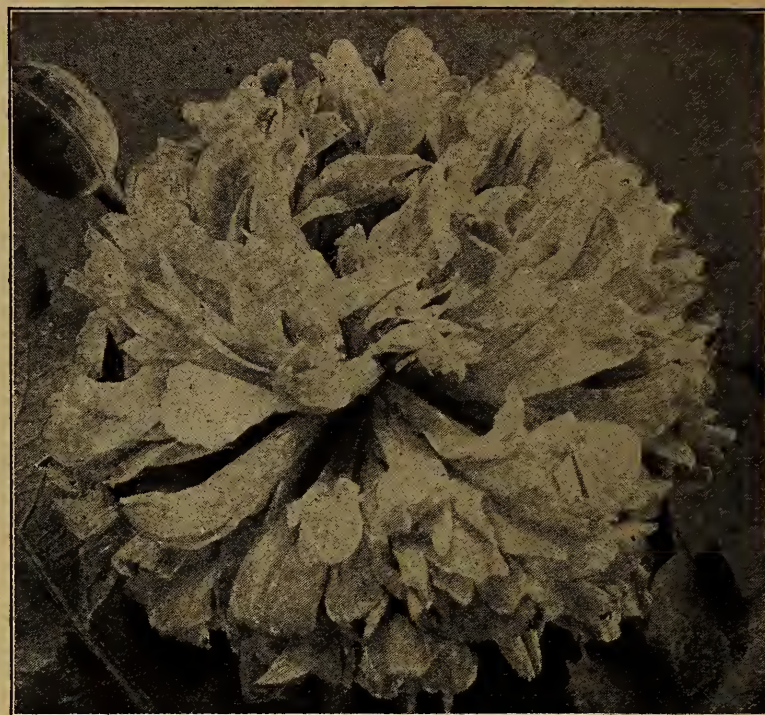
One of our favorite and most popular flowers, producing, during the blooming period, a profusion of brilliant colors and shades. Seeds should be sown where they are to remain, as they do not stand transplanting.

SINGLE ANNUAL POPPIES

	Oz.	Large pkt.	Pkt.
Michell's Shirley. An improved strain of this lovely race of poppies, varying in color from pure white and delicate pink to rosy carmine and deep crimson, in mixture. A bed of these poppies produces a gorgeous effect.....	\$0.40	\$0.15	\$0.05
Admiral. Large flowers of pure white with broad band of scarlet at edge of each petal.....	.50	.15	.10
Danebrog. Flowers brilliant scarlet with a silvery-white spot on each petal; 2 feet.....	.25	.15	.05
King Edward. Deep scarlet, shaded crimson.....	.50	.15	.15
Maid of the Mist. Large white flowers beautifully fringed; 3 to 4 feet .....	.30	.15	.10
Miss Sherwood. Satiny white with upper half of corolla chamois rose .....	.40	.15	.10
Tulip. A beautiful poppy, resembling a large tulip; color a dazzling scarlet; 1 foot .....	.60	.15	.10
Umbrosum. Rich vermilion with a deep shining black spot on each petal; 2 feet.....	.25	.15	.05

PERENNIAL POPPIES

	Large pkt.	Pkt.
Giant Scarlet (<i>Bracteatum</i>). Large flowers.....	\$0.15	\$0.10
Iceland, Single Mixed. Colors range from white and yellow to deep orange scarlet; useful for cutting; if sown early will bloom the first year; 12 inches .....	.20	.10
Iceland, White .....	.20	.10
Iceland, Yellow .....	.20	.10
Iceland, Double Mixed. 1 foot.....	.30	.10
Orientele. Extra large flowers; deep scarlet.....	.25	.10
" Mrs. Perry. Rich, salmon pink.....	.40	.10
" Parkmanni. Deep crimson .....	.40	.10
" Psyche. Delicate rosy blush.....	.40	.10
" Trilby. Brilliant red.....	.40	.10
" Hybrids. Beautiful flowers of large size; mixed colors... ..	.30	.10
Imported Collection. Perennial poppies, 8 varieties.....		.40



Double Poppy

DOUBLE ANNUAL POPPIES

	Oz.	Large pkt.	Pkt.
Carnation Flowered. Double fringed, mixed.....	\$0.20		\$0.05
Crimson King. Flowers perfectly round..	.25	\$0.15	.05
Fairy Blush. Flowers white, elegantly fringed and tipped with rose; 2 feet.....	.25	.15	.05
Mikado (<i>Striped Japanese</i>). Double fringed flowers, white striped with crimson; 18 in. ....	.25	.15	.05
Paeony Flowered White .....	.25	.15	.05
Paeony Flowered Yellow. Very fine .....	.25	.15	.05
Paeony Flowered Scarlet .....	.25	.15	.05
Paeony Flowered Mixed. Immense double flowers resembling a Paeony; 2 feet.....	.20		.05
Double Shirley. Double large flowers, mixed .....	.25	.15	.05
Imported Collection. Double Paeony flowered; 6 varieties .....			.25



Oriental Poppy



Single Portulaca

PORTULACA

Dwarf-growing plants of easy culture; thriving best in a light, sandy soil and a sunny situation; flowers of the brightest colors.

	Large pkt.	Pkt.
Double Mixed. All colors.....	1/4 oz., 50c.	\$0.30 \$0.10
Single Mixed. All colors.....	1/4 oz., 35c.	.15 .05
Imported Collection. 8 Double varieties .....		.50
Imported Collection. 8 Single varieties .....		.25

PRIMULA**FRINGED CHINESE PRIMROSE**

These are among our finest winter and spring blooming pot plants. Our strains have won many first prizes.

Michell's Prize Mixture. This mixture contains only the finest sorts selected from the best strains..

	Large pkt.	Pkt.
Duchess. Large; white with zone of rosy carmine, yellow eye .....	.75	.40
Alba Magnifica. White flowers with yellow eye .....	.75	.40
Chiswick Red. Brilliant red.....	.75	.40
Holborn Blue. A beautiful shade.....	.75	.40
Kermesina Splendens. Crimson.....	.75	.40
Rosy Morn. Delicate pink.....	.75	.40
Stellata (Sutton's). Excellent pot plant; mixed.		
Per original pkt.		.75
Fern Leaved. Choicest mixed colors.....	.75	.25
Imported Collection. 8 varieties.....		.75

PRIMULA OBCONICA GIGANTEA

A great improvement over the old type; flowers much larger, and produced in greater abundance.

	Large pkt.	Pkt.
Lilacina. Pale lilac	\$0.65	\$0.20
Rosea. Pink .....	.65	.20
Kermesina. Crimson .....	.65	.20
Alba. White .....	.65	.20
Hybrida Mixed .....	.65	.20

PRIMULA—(Continued)**PRIMULA OBCONICA GRANDIFLORA**

	Large pkt.	Pkt.
Compacta. Dwarf, compact plants with dense heads of large rosy lilac flowers.....	\$0.65	\$0.25
Fimbriata. Flowers fringed; mixed colors.....	.65	.15
Vesuvius. Deep crimson.....	.65	.25
Crispa. Large flowers, which are crisped or curled making them very attractive; color, from apple blossom pink to rose.....	.65	.20

PRIMULA VARIOUS SORTS

Primula Kewensis (<i>Verbena Scented Yellow Primrose</i>). Spikes each 12 to 18 inches long, and bearing four to six whorls of bloom; color, soft yellow .....	.65	.25
Buttercup. Yellow flowers; fine for pots.....	.65	.25
Forbesi (<i>Baby Primrose</i>). Small flowers; fine for pots; color, rosy lilac.....	.65	.15
Malacoides. Resembles Primula Forbesi, but the flowers are much larger; if grown in a greenhouse it will bloom in four to five months after sowing; color, a pretty light lilac.....	.65	.20
Malacoides Alba. Flowers pure white.....	.65	.20
Malacoides Rosea. Light rose to carmine rose...	.65	.20

HARDY PRIMROSES

Cortusoides Sieboldii. Hardy perennial variety; should have slight protection during the winter; also fine for pots; mixed colors.....	.65	.15
Veris (<i>English Cowslip</i>). Hardy perennial; fragrant; mixed .....	.20	.10
Vulgaris (<i>English Primrose</i>). The common hardy English variety; canary yellow.....	.40	.10

Ask for Cultural Leaflet No. 206 on the growing of Primulas.



Michell's Prize Chinese Primula



PYRETHRUM

FOLIAGE SORTS FOR BEDDING

Foliage plants used for edging of ornamental beds; leaves are finely cut and of a golden yellow color.

Aureum (Golden Feather). Bright golden yellow foliage; 8 inches

oz., 50c. \$0.15 \$0.10

Selaginoides. Golden yellow, fern-like foliage20 .10

FLOWERING SORTS

Handsome hardy perennial plants for the herbaceous border; flowers showy and excellent for cutting.

Large pkt. Pkt.

Roseum. Flowers bright rose color; July; 2 ft. \$0.30 \$0.10

Uliginosum. Large, single white flowers; September; 3 to 4 ft. .30 .10

Hybridum Single Mixed. Large flowers ranging in color from light pink to deep red, with bright yellow centres; July; 2 feet..... .30 .10

Hybridum Double Mixed .65 .25



Pyrethrum—Double



Pueraria Thunbergiana

See pages 66 to 72 for valuable Novelties and Specialties in Flower Seeds



PUERARIA THUNBERGIANA (Kudzu Vine)

Large pkt. Pkt.

One of the fastest growing hardy climbing plants; grows 8 to 10 feet the first year from seed; after the first year it will grow 30 to 50 feet in a season; rosy purple pea-shaped blossoms.....\$0.25 \$0.10

RHODANTHE (Everlasting Flower)

A beautiful annual, for the garden or for pot culture; mixed colors; 1 foot..... .20 .05

RICINUS (Castor Oil Bean)

These ornamental plants are used with great effect on lawns, as centrepieces in flowering beds such as cannas, etc.

Michell's Giant. A new hybrid of gigantic dimensions; the stem and stalks are covered with a blue bloom; leaves dark brown and measure 2 to 2½ feet in diameter.....\$0.60 \$0.10

Borboniensis. Beautiful green foliage; 15 feet... .15 .05

Cambodgensis. Large leaves, dark bronzy-maroon; stalk and stems nearly black; 5 feet..... .20 .05

Gibsoni. Deep red foliage; 5 feet..... .15 .05

Philippiensis. Gigantic purple foliage; 10 feet... .15 .05

Sanguineus. Blood-red stalks and clusters of red fruit; 8 feet15 .05

Zanzibariensis. Enormous leaves varying in color from light green to purplish red; 12 feet..... .20 .05

Mixed. All sorts15 .05

RUDBECKIA (Coneflower)

Tall growing plants, flowering profusely all summer.

Large pkt. Pkt.

Bicolor Superba. Yellow flowers with brown disc in centre; annual; 2 feet\$0.15 \$0.10

Newmani. Large yellow flowers with black centre; perennial; 3 feet; all summer..... .40 .10

Purpurea (Giant Purple Cone Flower). Hardy perennial; showy reddish purple flowers, with dark brown disc; 3 feet..... .30 .10

SAINTPAULIA (African Violet)

Ionantha. Beautiful greenhouse plants, bearing a profusion of flowers resembling the violet... .25



Salvia, Michell's Scarlet Glow

SALVIA (Scarlet Sage)

This popular bedding plant is impossible to be replaced. There is nothing more effective in the mid-summer or fall than these bright scarlet flowers. Seeds should be started either in the house or in hotbeds from February till April. Large Pkt. Pkt.

Michell's Scarlet Glow. A new variety of great merit, and an improvement on the Zurich; dwarf and compact; produces early in the season a mass of bright scarlet flowers. \$0.65 \$0.15

Bonfire (*Clara Bedman*). Compact bushy plants 2 feet high, producing innumerable erect spikes of the most brilliant scarlet flowers. 1/4 oz., 75c. .30 .10

Ball of Fire. A dwarf early flowering variety with long spikes of brilliant scarlet flowers; excellent for borders; 18 inches.40 .15

Zurich. This is the earliest flowering of all salvias; plants are of dwarf, bushy growth and produce an abundance of bright scarlet flowers from early July until frost; height, 18 ins.40 .15

Ostrich Plume (*New*). The habit of the plant is similar to the well-known Splendens variety; the spikes of flowers resemble a plume, and are of the brightest scarlet.65 .25

Splendens. Tall growing plants with bright scarlet flowers; height, 3 feet. 1/4 oz., 50c. .30 .10

King of Carpets. Exceedingly dwarf growing plants with small foliage and an abundance of flowers; color, bright scarlet; very showy and distinct40 .15

Patens. Bright blue flowers of large size; height, 2 feet40 .15

Compacta Alba. A dwarf-growing variety with white flowers30 .10

Azurea Grandiflora. A hardy perennial variety producing during August and September spikes of pretty sky-blue flowers; 2 feet.30 .10

Farinacea. A perennial variety, but best treated as an annual, blooming from July to frost from spring sown seed; color, light blue; 2 feet.25 .10

SANVITALIA

Procumbens Fl. Pl. Dwarf annual with bright yellow, double flowers; useful for edgings, or vases, baskets, etc.; 6 inches.20 .10

SALPIGLOSSIS (Painted Tongue)

Easy growing annual plants with large funnel-shaped flowers, beautifully tinted and veined in rich shades; blooms from early summer until late fall; 18 inches.

GRANDIFLORA

Large pkt. Pkt.

Black, Yellow Veined	\$0.30	\$0.10
Carmin . . . . .	.30	.10
Crimson . . . . .	.30	.10
Pink . . . . .	.30	.10

Collection. One packet each of above 4 colors, 35c.

Choice Mixed. All colors25 .05

Imported Collection. 6 large flowering varieties.30

EMPEROR

A new type having only one main stem, and bearing on its summit a large number of beautiful flowers, each one richly veined with gold, and of immense size. Large pkt. Pkt.

Choice Mixed \$0.40 \$0.10



Scabiosa, Grandiflora

SCABIOSA (Mourning Bride)

Free-flowering annuals of easy culture; splendid for cutting or garden effect; should be in every collection.

GRANDIFLORA VARIETIES

Flowers large and very showy, on stalks fully 2 feet high.

Large pkt. Pkt.

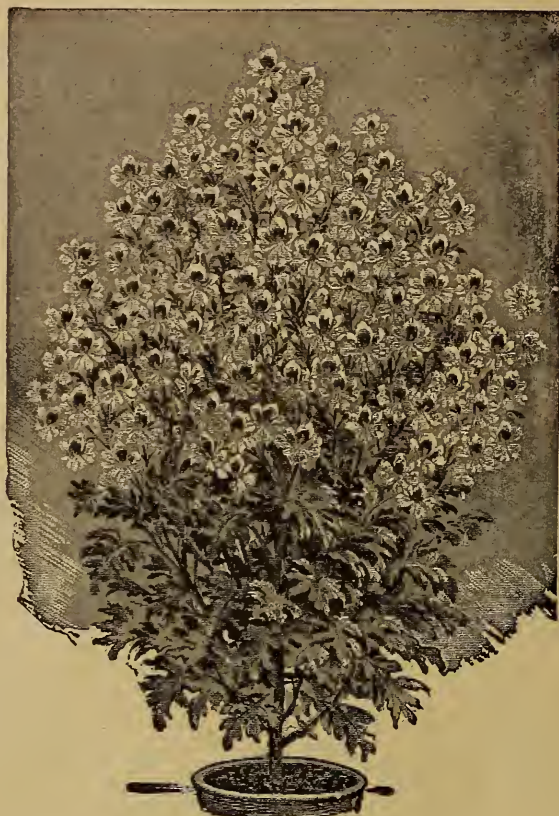
Azure Fairy. Light heavenly blue.	\$0.20	\$0.10
Fiery Scarlet . . . . .	.20	.05
Flesh Pink . . . . .	.20	.05
King of Blacks. Deep maroon, almost black. . . . .	.20	.05
Pompadour. Deep purple, edged with white. . . . .	.20	.05
Sulphur Yellow . . . . .	.20	.05
Pure White . . . . .	.20	.05
Othello. Dark purple . . . . .	.20	.10
Finest Mixed oz., 50c. .15		.05
Dwarf Double Mixed. Plants grow but 12 inches high; all colors. oz., 30c. .15		.05

HARDY PERENNIAL VARIETIES

Handsome perennial border plants flowering the entire season.

Large pkt. Pkt.

Caucasica. Soft blue	\$0.40	\$0.10
Caucasica Alba. Pure white . . . . .	.50	.10
Japonica. Lavender . . . . .	.30	.10

*Schizanthus—Wisetonensis***SCHIZANTHUS (Butterfly Flower)**

One of our finest hardy annuals, bearing a profusion of pretty butterfly-like flowers of various colors, closely resembling some species of Orchids; also desirable for winter blooming in pots.

	Large pkt.	Pkt.
Grahami Niveus. Foliage finely cut, with a profusion of snowy white flowers; 2 feet.....	\$0.30	\$0.10
Hybridus Grandiflorus.. Forms compact pyramidal plants covered with flowers of many shades of orchid-like appearance; 12 inches.....	.25	.10
Wisetonensis. A showy variety, largely used as a pot plant for the house or conservatory; bears a profusion of flowers ranging from white with yellow centre to pink with brown centre; 1½ feet..	.50	.20
Bridal Veil. Compact plants literally covered with glistening, snowy white blossoms; finely lacinated green foliage; 16 inches.....	.25	.15
Mixed. Various colors .....	.15	.05

SENSITIVE PLANT (Mimosa)

Pudica. Curious and interesting annual plants with pinkish white flowers; the leaves close or droop when touched or shaken; 18 inches.....	.15	.05
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SMAMROCK

True Irish. Small leaved variety.....	.30	.10
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SHASTA DAISY. See *Chrysanthemum*

SILENE (Catchfly)

Free-flowering hardy annuals, with showy flowers.

Bonetti, Dwarf Pink. Plants dwarf, thickly studded with bright pink flowers.....	\$0.15	\$0.10
Dwarf Golden Leaved. Flowers pink.....	.15	.05
Double Dwarf White. A beautiful variety.....	.15	.05

SMILAX

A greenhouse climber of great value for floral decorations; seed should be soaked 24 hours in warm water before sowing; 10 feet.....	oz., 50c.	.15	.10
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SNAPDRAGON. See *Antirrhinum*

SOLANUM

Ornamental plants for winter decoration; of dwarf branching habit; bears a profusion of bright berries; 1 foot.

	Large pkt.	Pkt.
Capsicastrum (Jerusalem Cherry). Bright scarlet globular berries; 1 foot.....	oz., 40c.	\$0.15 \$0.10
Fra Diavola. Of dwarf branching habit, with leaves and fruit somewhat smaller than the above variety .....	.25	.15

STATICE

Pretty plants for the summer garden in beds or borders, also for rock-work. The flowers when dried make nice winter bouquets.

	Large pkt.	Pkt.
Latifolia. Hardy perennial variety, with large, deep blue flowers; 2 feet.....	\$0.25	\$0.10
Suworowi. An annual variety, with pink flowers; 1 foot .....	.20	.10

STEVIA

Serrata. Free blooming plants for summer or winter; bearing a profusion of fragrant white flowers; 2 feet.....	.20	.10
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STIPA, Ornamental Grass. (See page 90)

STOCK. (See next page)

*Stokesia Cyanea***STOKESIA (Cornflower or Stokes' Aster)**

Plants grow about 15 to 18 inches high, bearing freely from July to October handsome Centaurea-like blossoms, each measuring from 4 to 5 inches across; it is of easy culture, and one of the most desirable plants for the hardy border, and excellent for cutting.

	Large pkt.	Pkt.
Cyanea. Light blue	\$0.25	\$0.10
Cyanea Alba. Pure white .....	.30	.10

STRAWFLOWER See Helichrysum

Alliance, Ohio, April 24, 1915.

Gentlemen:

I received my order of seeds very promptly and wish to thank you. Please send some more order blanks with the enclosed order, as I expect to buy from you right along—every week or so. I think there is none like Michell's.

Yours truly,
H. J. P.

MICHELL'S "DISTINCTIVE" STOCKS

107

The stock is one of the most popular and highly prized of our cultivated flowers, either for the garden or for pot culture. The charming colors, delightful fragrance and free blooming character, have made them favorite plants for both summer and winter cultivation. The seeds we offer are hand-saved from pot-grown specimens and will produce a large percentage of double flowers.

MICHELL'S "FLOWER MARKET" STOCK

This is the ideal stock for either garden, cutting or forcing under glass. Plants branch freely and produce from 10 to 15 heavy spikes of extra large perfect flowers; height, 2 feet.

	1/2 Oz.	Large pkt.	Pkt.
White	\$0.75	\$0.40	\$0.15
Flesh Color .....	.75	.40	.15
Rose .....	.75	.40	.15
Light Blue .....	.75	.40	.15
Dark Blue .....	.75	.40	.15
Blood Red .....	.75	.40	.15
Mixed Colors .....	.75	.40	.15

MICHELL'S "DISTINCTIVE" COLUMN STOCK

Stout plants produce just one giant spike, lined with mammoth flowers; height, 3 feet.

	1/2 Oz.	Large pkt.	Pkt.
Blood Red	\$0.75	\$0.40	\$0.15
Pure White .....	.75	.40	.15

LARGE FLOWERED DWARF TEN WEEK STOCK

For bedding there is nothing more effective; dwarf compact growing plants, producing thick short spikes of elegant double flowers.

	1/2 Oz.	Large pkt.	Pkt.
Blood Red	\$0.50	\$0.30	\$0.10
Light Blue .....	.50	.30	.10
Pink .....	.50	.30	.10
Purple .....	.50	.30	.10
White .....	.50	.30	.10
Yellow .....	.50	.30	.10
Choice Mixed....	.50	.30	.10
Imported Collection. 8 varieties.....			.50

MICHELL'S "NICE" STOCK

An early flowering strain; remarkable free bloomer, producing an abundance of large double, fragrant flowers on a single plant; fine for garden bedding or cutting. *Beauty of Nice*. Delicate soft pink.

Pkt., 15c.; 40c. large pkt.
Crimson King. Brilliant fiery crimson. Pkt., 15c.; 40c. large pkt.
Queen Alexandra. Delicate lavender. Pkt., 15c.; 40c. large pkt.
Victoria. Pure white. Pkt., 15c.; 40c. large pkt.

Abundance. Of dwarf spreading habit, bearing a profusion of flowers; color, a beautiful shade of carmine rose. Pkt., 15c.; 40c. large pkt.

Midsummer Night. Deep dark violet. Pkt., 20c.; 40c. large pkt.

La Brillante. Rich brilliant crimson. Pkt., 20c.; 40c. large pkt.

Mme. Rivoire. Early flowering; color, pure white. Pkt., 15c.; 40c. large pkt.

VARIOUS STOCKS

Wall Flowered Leaved Mixed. Glossy deep green foliage with flowers in all shades Large pkt. Pkt. \$0.30 \$0.10

Brompton or Winter Mixed. Fine for forcing under glass or early summer flowering outdoors40 .10

White Lady. A new Winter Stock, branching freely and producing large double flowers of a lustrous snowy white..... .40 .25

Princess Alice (Cut and Come Again). Branching plant with double pure white flowers; fine for cutting40 .10

Bismarck. Of pyramidal form with a profusion of fragrant, pure white flowers40 .15

Virginian Stock Mixed. A splendid free flowering plant, growing easily from seed sown outdoors Oz., 30c. .15 .05



Michell's "Nice" Stock



Michell's Flower Market Stock

Ask for Leaflet No. 211 on the Growing of Stocks

108 MICHELL'S SPENCER "ORCHID" SWEET PEAS

Nothing within recent years can approach in importance the introduction of the "Spencer" Sweet Peas. Though but a few years old they are fast supplanting the older type. They are distinguished from the standard sorts by the enormous flowers with crinkled and wavy petals, and also from the fact that they usually bear four blossoms on a stem.



New Spencer Sweet Peas

MICHELL'S "SUPERB" SPENCER MIXTURE

We blend this ourselves from only the Giant Waved Spencer varieties, including a number of new hybrids of exquisite colors and shades; we are sure this mixture will give absolute satisfaction. Per pkt., 10c.; 20c. per oz.; ¼ lb., 60c.; \$2.00 per lb.

WHITE				
	Pkt.	Oz.	¼ Lb.	Lb.
King White. Gigantic flowers; pure white	\$0.15	\$0.60	\$2.00	\$6.50
Nora Unwin. Large pure white.....	.10	.20	.60	2.00
White Spencer. Pure white.....	.10	.25	.75	2.75

LIGHT PINK				
Blanche Ferry Spencer. Large flowers; pink and white .....	.10	.25	.75	2.75
Countess Spencer. A lovely clear pink, shading deeper at the edge.....	.10	.25	.75	2.75
Dazzler. Brilliant orange pink.....	.10	.35	1.00	3.50
Duplex Spencer. Large, rich cream pink; nearly all the flowers have double or triple standards.....	.10	.30	.85	3.00
Elfrida Pearson. Light pink, margined with darker pink.....	.10	.30	.85	3.00
Florence Morse Spencer. Delicate blush, with pink margin.....	.10	.25	.75	2.75
Gladys Unwin. Delicate pink.....	.10	.15	.50	1.50
Helen Lewis. Orange pink.....	.10	.25	.75	2.25
Hercules. Giant pure pink.....	.10	.50	1.75	6.00
Illuminator. Rich salmon pink.....	.10	.60	2.00	6.50
Lovely Spencer. Deep pink, shading to blush .....	.10	.25	.75	2.75
Margaret Atlee. Light salmon pink on cream ground .....	.15	.60	1.75	6.25
Mrs. Hugh Dickson. Salmon pink on cream ground .....	.10	.25	.75	2.50
Mrs. Routzahn Spencer. Buff pink....	.10	.25	.75	2.50
Robert Sydenham. Orange .....	.15	.75	2.50	9.00
Stirling Stent. Deep salmon, suffused with orange .....	.10	.35	1.00	3.50

DEEP PINK OR ROSE				
Apple Blossom Spencer. Rose and pink ..	.10	.25	.75	2.75
George Herbert. Rose carmine.....	.10	.25	.75	2.75
Marie Corelli. Rich rose crimson.....	.10	.40	1.25	4.00
Rosabelle. Giant rose.....	.10	.60	1.75	6.00

PRIMROSE OR LIGHT YELLOW				
Dobbie's Cream. Deep cream, or primrose yellow .....	.10	.35	1.00	3.50
Primrose Spencer. Light yellow.....	.10	.25	.75	2.50

LAVENDER				
Asta Ohn Spencer. Rich lavender.....	.10	.25	.75	2.75
Empress Eugenie. Light gray, flaked with lavender .....	.10	.60	2.00	7.00
Flora Norton Spencer. Light lavender.	.10	.25	.75	2.75
Florence Nightingale. The largest and best lavender .....	.10	.30	.85	3.00
Frank Dolby. Light lavender.....	.10	.20	.60	2.00

BLUE AND PURPLE				
Afterglow. Violet standards shaded rosy amethyst, wings electric blue.....	.10	.60	2.00	6.75
Captain of the Blues Spencer. Standard purple; wings blue .....	.10	.30	.85	3.00
Irish Belle. Lovely rich lilac, flushed with pink .....	.10	.40	1.25	4.00
Royal Purple. Rich purple.....	.15	.85	3.00	
Wedgewood. A lovely self blue .....	.10	.50	1.50	5.50

SCARLET				
Fiery Cross (New). Large, intense orange scarlet .....	.25			
King Edward Spencer. Bright crimson scarlet .....	.10	.25	.75	2.50
Queen Alexandra. Bright scarlet.....	.10	.25	.75	2.50
Thomas Stevenson. Orange scarlet....	.10	.30	.85	3.00
Vermilion Brilliant. Intense scarlet....	.10	.50	1.50	5.00

MAROON				
Nubian. Maroon or deep chocolate self.	.10	.40	1.25	4.00
Othello Spencer. Deep maroon.....	.10	.30	.85	3.00

STRIPED AND FLAKED				
Aurora Spencer. Striped and flaked salmon-rose on white ground.....	.10	.25	.75	2.75
America Spencer. Red flakes on white ground .....	.10	.25	.75	2.75
Ethel Roosevelt. Gigantic flower of soft primrose, flaked with crimson.....	.10	.30	.85	3.00

MICHELL'S SUPERB "SPENCER" OR ORCHID FLOWERED
MIXTURE SWEET PEAS



MICHELL'S SUPERB "SPENCER" OR ORCHID FLOWERED SWEET PEAS

	Per pkt.	Per oz.	Per ¼ lb	Per lb.
Mixture of all colors	10c.	20c.	60c.	\$2.00

MICHELL'S SWEET PEAS IN MIXTURE



Orange, Va.

Dear Sirs:

I must say that in an experience of 30 years in growing Sweet Peas I never before had such strong growth of vines, united with such persistent blooming and fine flowers.

*Yours respectfully,
P. S.*

Newnan, Ga.

Gentlemen:

Please send me the following varieties of Sweet Pea Seed:—My Spencer Sweet Peas bought of you last year were the finest I ever saw.

*Very respectfully,
Mrs. W. D. P.*

SWEET PEAS IN MIXTURE

The mixtures offered below have been made by ourselves and should not be compared with some of the cheap mixtures advertised.

MICHELL'S SUPERB SPENCER OR ORCHID FLOWERED MIXTURE

This is blended from only the Giant Waved Spencer varieties, including a number of new hybrids of exquisite colors and shades; we feel sure this mixture will give absolute satisfaction.

Price: 10c. per pkt.; per oz., 20c.; 60c. per $\frac{1}{4}$ lb.; per lb., \$2.00.

MICHELL'S MAGNIFICENT MIXTURE

Great care has been taken in making this mixture, selecting the large flowering, long stemmed varieties, a large percentage of which are of the lighter colors and shades.

Price: 5c. per pkt.; per oz., 15c.; 40c. per $\frac{1}{4}$ lb.; per lb., \$1.25.

MICHELL'S GILT EDGE MIXTURE

This mixture contains the Grandiflora or large flowering varieties, and represents almost every color and shade in Sweet Peas.

Price: 5c. per pkt.; per oz., 10c.; 30c. per $\frac{1}{4}$ lb.; per lb., \$1.00.

DWARF CUPID VARIETIES MIXED

Compact plants growing 6 to 7 inches high and 12 to 15 inches in diameter, and from June until late summer are literally a sheet of bloom; excellent for edgings or pot culture.

Price: 5c. per pkt.; per oz., 15c.; 50c. per $\frac{1}{4}$ lb.; per lb., \$1.50.

NITROGEN BACTERIA "FARMOGERM"

The ideal preparation for treating sweet peas seed when planting. Makes larger and more flowers, longer stems; prolongs the blooming period. Price, 25 and 50c. per bottle postpaid.

Our Booklet "How to Grow Sweet Peas" included in all orders if requested.

MICHELL'S SELECTED NAMED SWEET PEAS 109

STANDARD VARIETIES

The varieties we offer below have been selected from a large list and embrace only the very best large flowering sorts.

For the convenience of our customers we have arranged the different varieties according to color.

Our Booklet "How to Grow Sweet Peas" included in all orders if requested.

WHITE

	Oz.	¼lb.	1lb.
Blanche Burpee. Large, pure white.....	\$0.15	\$0.40	\$1.25
Dorothy Eckford. Extra large, white.....	.15	.40	1.25
Emily Henderson. Pure white15	.40	1.25

PRIMROSE AND YELLOW

Hon. Mrs. E. Kenyon. Primrose yellow....	.15	.40	1.25
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ROSE AND PINK

Blanche Ferry. Pink and white.....	.15	.40	1.25
Dainty. White ground, with picotee edge of rose pink15	.50	1.50
Katherine Tracy. Soft but brilliant pink..	.15	.40	1.25
Lovely. Soft shell pink.....	.15	.40	1.25
Prima Donna. Lovely soft pink.....	.15	.40	1.25
Prince of Wales. Rose crimson.....	.15	.40	1.25

ORANGE

Miss Wilmott. Deep orange pink.....	.15	.50	1.50
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LAVENDER

Countess of Radnor. Pale lavender.....	.15	.40	1.25
Lady Grisel Hamilton. Pale lavender.....	.15	.40	1.25
Flora Norton. Delicate lavender.....	.15	.50	1.50

CRIMSON AND SCARLET

King Edward VII. Crimson scarlet.....	.15	.50	1.50
Queen Alexandra. Large scarlet.....	.15	.40	1.25
Salopian. Scarlet .....	.15	.50	1.50

BLUE AND PURPLE

Duke of Westminster. Standard clear purple, wings violet.....	.15	.50	1.50
Lord Nelson. Rich navy blue.....	.15	.50	1.50
Navy Blue. Deep violet blue.....	.15	.40	1.25

MAROON

Black Knight. Deep maroon.....	.15	.50	1.50
Othello. Very dark maroon.....	.15	.40	1.25

STRIPED AND MOTTLED

America. Blood red striped on white.....	.15	.40	1.25
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Price, any of the above Varieties, 5c. per packet.

SPECIAL COLLECTIONS OF SWEET PEAS

One packet each 15 named varieties our selection..	\$0.50
One ounce each 15 named varieties our selection....	1.50
One packet each 23 named varieties above.....	.75
One ounce each 23 named varieties above.....	2.00

For Spencer or Orchid Flowered Sweet Peas see page 108.

New Winter Flowering Sweet Pea

Rose Queen (Spencer Type)

Flowers are produced on long stems, are of large size and of an exquisite pink color. Large pkt., \$1.00.

New Winter Flowering Sweet Pea

Yarrawa (Spencer Type)

Flowers exquisitely waved, of extra large size, many of them being duplex or double. Color a pleasing shade of bright rose pink with lighter wings. Large pkt., \$1.00; \$3.00 per ½ oz.; per oz., \$5.00



Sweet Pea—Dorothy Eckford

Michell's Christmas or Winter Flowering SWEET PEAS

The following varieties can be successfully grown outdoors in summer, but are especially desirable for forcing in greenhouse for winter blooming.

Michell's Snowdrift. Pure white; black pkt. seeded; extra early; large flowers.....	\$0.10	\$0.35	\$1.00
Blanche Ferry, Extra Early. Pink and white .....	.05	.15	.40
Christmas Meteor. Scarlet .....	.10	.25	.75
" Pink. Pink and white.....	.10	.25	.75
" White (Florence Denzer).....	.10	.25	.75
Earliest of All. Pink and white.....	.05	.15	.50
Le Marquis. Large dark blue.....	.10	.25	.75
Mont Blanc. Pure white.....	.05	.15	.50
Mrs. Alex. Wallace. Lavender.....	.10	.25	.75
Mrs. Chas. H. Totty. Lavender.....	.10	.25	.75
Mrs. F. J. Delansky. Daybreak pink.....	.10	.25	.75
Mrs. Geo. Lewis. Pure white.....	.10	.25	.75
Mrs. William Sim. Salmon pink.....	.10	.25	.75
Mrs. W. W. Smalley. Satin pink.....	.10	.25	.75
Mixed. Winter flowering.....	.10	.25	.75



Sunflower, Stella

SUNFLOWER (Helianthus)**SMALL FLOWERED SORTS**

	Large Pkt.	Pkt.
Stella. Large, single golden yellow flowers with black centre .....Oz., 30c.	\$0.15	\$0.05
Chrysanthemum. Single yellow .....Oz., 25c.	.15	.05
Aut-and-Come-Again. Single yellow flowers, with twisted petals .....Oz., 25c.	.15	.10
Perkeo. Single yellow, black centre; 1 foot.....	.15	.10
Starlight. Beautiful single canary-yellow flowers with twisted petals; 4 feet.....	.20	

SUNFLOWER—LARGE FLOWERED SORTS

Low Red. For illustration and full description, see Novelty pages 66 to 72.....	.40	.15
Chrysanthemum Flowered. Large double golden yellow flowers, resembling Chrysanthemums; 7 feet .....Oz., 30c.	.15	.05
Double Globe (Globosus Fistulosus). Large double yellow flowers; height, 6 feet.....Oz., 25c.	.15	.05
Dwarf Double (Globe of Gold). Yellow flowers; 3 feet .....Oz., 25c.	.15	.05
Oscar Wilde. Single yellow, black centre; 6 feet. ....Oz., 25c.	.15	.05
Polar Star. Single, creamy white, black centre..	.20	.10
Russian Mammoth. Immense single yellow flowers on tall heavy stalks; 6 feet.....Oz., 10c.	.05	

SUNFLOWER—PERENNIAL SORTS

Showy garden flowers blooming the whole summer.		
Golden Bouquet. Single yellow flowers; 5 feet...\$0.25	\$0.10	
Choice Mixed. Single flowering, hardy perennial sorts; will bloom the first year if sown early..	.40	.10

SWEET ROCKET (Hesperis)

A desirable hardy plant; excellent for naturalizing among shrubbery or for planting in a permanent border.

Mixed. Fragrant white and purple flowers; perennial; 2 to 3 feet.....Large Pkt. Pkt.
\$0.15 \$0.05

SWEET SULTAN (Centaurea Moschata)

Hardy annual; fragrant flowers, resembling "Bachelor's Buttons."

Mixed ColorsOz., 30c. Large Pkt. Pkt.
\$0.15 \$0.05



Single Sweet William

SWEET WILLIAM (Dianthus Barbatius)

This is one of the finest of our hardy garden plants; of easy culture; thriving in any good garden soil and lasting for years. The plants grow about 1½ feet high, and form fine clumps; produces fine effects in beds and shrubbery.

	Oz.	Large Pkt.	Pkt.
Single Crimson .....\$0.50	\$0.15	\$0.05	
“ Red with white eye.....	.50	.15	.05
“ Velvety Maroon .....	.50	.15	.05
“ Violet with white eye.....	.50	.15	.05
“ White .....	.50	.15	.05
“ Mixed. All colors.....	.30	.15	.05

Pink Beauty. An exceedingly pretty variety with beautiful salmon pink flowers. .40 .15

Scarlet Beauty. Rich deep scarlet variety. .40 .15

Auricula Flowered. A beautiful class of “eyed” single varieties, all colors mixed.. .60 .15 .05

Double Mixed1.00 .20 .10

TAGETES (Single Marigold)

Golden Ring. Dwarf bushy annual Marigold, with beautiful fern-like leaves, covered with flowers of dark brown, edged yellow; 1 foot.....\$0.20 \$0.05

THUNBERGIA (Black-Eyed Susan)

Rapid growing annual climbers, making a pretty vine for trellis, fences, rockwork, etc.; also for window boxes, hanging baskets, and vases; produces a profusion of pretty flowers.

	Large Pkt.	Pkt.
Alba Oculata. White, with black eye.....\$0.20	\$0.05	
Alata. Buff, with black eye.....	.20	.05
Aurantiaca. Orange, with black eye.....	.20	.05
Mixed. All colors .....	.20	.05

TORENIA

Showy bedding plants, flowering profusely all summer; also fine for pots and baskets; height, 12 inches.

Fournieri Grandiflora. Sky-blue flowers, with dark blue spots and yellow throat.....Large Pkt. Pkt.
\$0.40 \$0.10

TRITOMA (Red Hot Poker Plant)

Showy plants either for bedding, vases or pot culture.

Uvaria Grandiflora. A most striking ornamental autumn plant; valuable for shrubberies, flower borders or beds; large spikes of orange-scarlet flowers; 3 to 4 feet.....Large Pkt. Pkt.
\$0.20 \$0.10



Michell's Mammoth Fancy Verbena

VERBENA

An excellent annual for beds and massing, and for a gorgeous display during the summer months cannot be excelled, commencing to flower in July and continuing until frost. Our **Mammoth Fancy Strain** cannot be surpassed for profusion of bloom and beautiful colors and shades.

	Oz.	Large pkt.	Pkt.
Michell's Mammoth Fancy Blue	\$2.00	\$0.40	\$0.10
" " " Pink	2.00	.40	.10
" " " Scarlet	2.00	.40	.10
" " " Striped	2.00	.40	.10
" " " White	2.00	.40	.10

Collection. One packet each of above 5 colors40

Michell's Mammoth Fancy Mixed..... 1.50 .40 .10

New Giant Flowered. A new variety of large size, with extra large white eyes, making them very attractive; mixed colors..... .65 .15

Helen Willmott. A new variety with large flowers of a bright salmon rose with white eye.... .20

Dornroschen. A new dwarf compact variety; flowers white, with a soft carmine rose edge..... .20

Fine Mixed. All colors.....oz., 8oc. .25 .05

Lemon Scented (*Aloysia Citriodora*). An old favorite plant with delightful lemon scented foliage; excellent for growing in the garden in summer and in pots in winter..... .40 .10

Ask for Cultural Leaflet No. 207 on the growing of Verbenas.

VALERIANA (Garden Heliotrope,

Hardy perennial border plants, large fragrant flowers; 2 to 3 feet.

	Large pkt.	Pkt.
Officinalis. Showy, rose pink flowers.....	\$0.40	\$0.10
Mixed Colors .....	.15	.05

VERONICA (Speedwell)

An elegant hardy perennial plant, of easy culture and free-flowering habit; of value as a cut flower or for garden effect. Plants grow bushy and produce long spikes of flowers.

Spicata. Long spikes of bright blue flowers 18 inches Large pkt. Pkt. \$0.30 \$0.10

Virginica. Long spikes of white flowers; 3 to 5 feet30 .10

VINCA ROSEA (Madagascar Periwinkle)

Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

	Large pkt.	Pkt.
Alba. White with rose eye.....	\$0.20	\$0.10
Alba Pura. Pure white.....	.20	.10
Rosea. Rose with dark eye.....	.20	.10
Mixed	Oz., 75c. .20	.10

VIOLA CORNUTA (Tufted Pansies)



Viola Cornuta

These resemble pansies in shape and form, with the additional quality that they have longer stems, and appear uninterrupted from early spring till late in autumn; especially adapted for shady places.

Admiration. Dark blue. Large pkt., 30c.; pkt., 10c.

Lutea Splendens. Rich, golden yellow. Large pkt., 30c.; pkt., 10c.

Perfection. Light blue. Large pkt., 30c.; pkt., 10c.

White Perfection. Pure white. Large pkt., 30c.; pkt., 10c.

Mauve Queen. Lovely mauve color. Large pkt., 30c.; pkt., 10c.

G. Wermig. Flowers borne in great profusion on long stems, and of the identical color of the "Princess of Wales" violet. Pkt., 20c.

Mixed. All colors. Large pkt., 30c.; pkt., 10c.

VIOLET Sweet Scented (Viola Odorata)

Well-known, fragrant spring-blooming plants.

	Large pkt.	Pkt.
Single Blue Czar. Dark blue.....	\$0.40	\$0.10
Single White Czar. Large white .....	.40	.10
Single Mixed. Blue and white .....	.40	.10

XERANTHEMUM (Everlasting Flower)

Double Mixed. Excellent for winter bouquets... Large pkt. Pkt. \$0.15 \$0.05

MICHELL'S CULTURAL LEAFLETS

We have prepared the following Cultural Leaflets especially for the benefit of the amateur, or in fact for any who may want them, giving instructions how to grow the same successfully from seed. These leaflets are free.

201. Antirrhinum.	208. Zinnia.	215. Cyclamen.
202. Aster.	209. Pansy.	216. Larkspur
203. Cineraria.	210. Salvia.	(Annual).
204. Mignonette.	211. Stock.	217. Lupinus.
205. Petunia.	212. Perennials.	218. Phlox Drum.
206. Primula.	213. Carnation.	219. Nasturtium.
207. Verbena.	214. Cosmos.	220. Begonia.

WALLFLOWER

While these are perennials, they are not perfectly hardy; the plants should be lifted late in the fall and planted in a cold-frame, and removed to the garden again in the spring; the flowers are fragrant and splendid for cutting; double varieties, 2 feet; single varieties, 1½ feet.

	Large pkt.	Pkt.
Double Brown	\$0.50	\$0.10
“ Yellow .....	.50	.10
“ Mixed. All colors.....	.40	.10
Single Mixed	oz., 30c.	.15 .05
Imported Collection. 6 double varieties .....		.50
Paris Extra Early. A single-flowering variety, which may be treated as an annual, flowering the first year from seed.		
Blood Red	\$0.20	\$0.10
Yellow .....	.20	.10
Mixed. All colors.....	oz., 50c.	.15 .10

MIXED OR WILD FLOWER GARDEN SEEDS

This mixture embraces about 100 varieties of easy-growing, beautiful and interesting annual flowers, which will furnish a profusion of bloom throughout the entire summer and autumn; many of the varieties will be found useful for cutting. Price: Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; \$1.50 per lb.

MICHELL'S PERENNIAL FLOWER GARDEN MIXTURE

To create an old-fashioned wild garden or to naturalize along roads or woods we highly recommend this mixture, as it contains many varieties of the choicest old-fashioned flowers. Price: Pkt., 10c.; 40c. per oz.; per ¼ lb., \$1.25.



New Giant Robusta Zinnia

MICHELL'S "DISTINCTIVE" ZINNIAS (Youth and Old Age)

Few of our hardy annuals are more effective in the border than Zinnias. They are very easily grown, and bloom continuously from early summer until frost.

ROBUSTA OR GIANT DOUBLE ZINNIAS

Plants grow extremely robust to a height of 2½ feet; have stout, straight stems crowned with gigantic, perfect double flowers, often measuring 5 to 6 inches across; splendid for cutting or garden effect.

	Oz.	Large pkt.	Pkt.		Oz.	Large pkt.	Pkt.
Crimson	\$2.00	\$0.50	\$0.15	Scarlet	\$2.00	\$0.50	\$0.15
Flesh Color	2.00	.50	.15	Sulphur Yellow	2.00	.50	.15
Golden Yellow	2.00	.50	.15	Violet	2.00	.50	.15
Purple	2.00	.50	.15	White	2.00	.50	.15
				Mixed .....	.90	.25	.10

TALL DOUBLE ZINNIAS

Flowers of good size; height, 2 feet.

	Oz.	Large pkt.	Pkt.		Oz.	Large pkt.	Pkt.
Crimson	\$0.50	\$0.15	\$0.05	White	\$0.50	\$0.15	\$0.05
Pink .....	.50	.15	.05	Yellow .....	.50	.15	.05
Scarlet .....	.50	.15	.05	Mixed .....	.40	.15	.05

DWARF DOUBLE ZINNIAS

Fine for edgings; height, 1½ feet.

	Oz.	Large pkt.	Pkt.		Oz.	Large pkt.	Pkt.
Jacqueminot. Crim-son	\$0.60	\$0.15	\$0.05	Scarlet	\$0.60	\$0.15	\$0.05
Pink .....	.60	.15	.05	White .....	.60	.15	.05
Salmon Rose .....	.60	.15	.05	Yellow .....	.60	.15	.05
				Mixed .....	.50	.15	.05

VARIOUS ZINNIAS

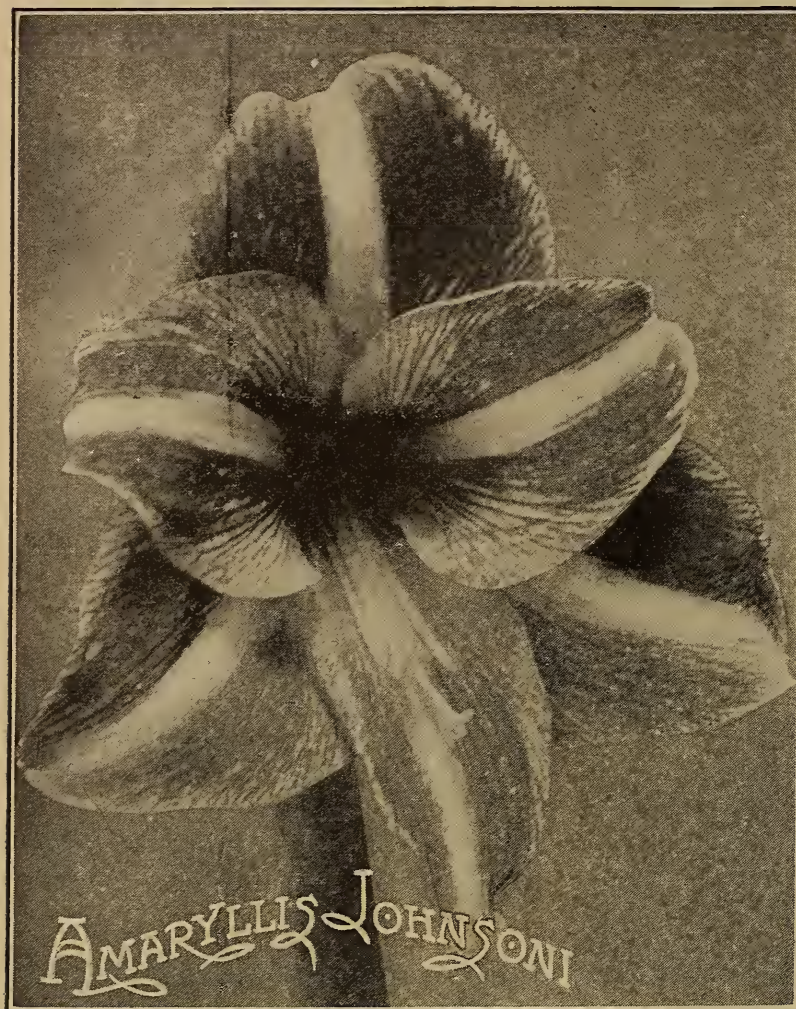
Curled and Crested. Large double flowers; petals curiously twisted and curled; mixed colors; 1½ feet.....	\$0.60	\$0.20	\$0.10
Red Riding Hood. A perfect compact plant, covered the entire season with small, button-like, intense scarlet, double flowers; 1 foot.....	.75	.20	.10
Zebra or Striped. Large double flowers, striped and spotted; 2 feet .....	.75	.20	.10
Imported Collection, 6 dwarf double varieties.....			.25
Imported Collection, 6 tall double varieties.....			.25



Double Wallflower

- Abutilon—Flowering Maple.
 Abyssinian Banana—*Musa Ensete*.
 Achillea—Milfoil, Sneezewort.
 Aconitum—Helmet Flower, Monk's Hood, Wolf's Bane.
 Acroclonium—Everlastings.
 Adams Needle—Yucca.
 Adiantum—Maiden Hair Fern.
 Adlumia—Allegheny Vine, Mountain Fringe.
 Adonis aestivalis—Pheasant's Eye.
 African Daisy—Arctotis.
 African Lily—Agapanthus.
 Agapanthus—African Lily.
 Ageratum—Floss Flower.
 Agrostemma—Rose Campion.
 Allegheny Vine—Adlumia.
 Aloysia citriodora—Lemon Verbena.
 Althaea rosea—Hollyhock.
 Althaea—Rose of Sharon.
 Alum Root—Heuchera.
 Alyssum saxatile—Basket of Gold.
 Amaranthus caudatus—Love Lies Bleeding.
 Amaranthus tricolor—Joseph's Coat.
 Amaryllis formosissima—Jacobean Lily.
 Amethyst—Browallia.
 Ampelopsis—Virginia Creeper.
 Ampelopsis Veitchii—Boston Ivy.
 Anchusa—Sea Bugloss.
 Anemone—Windflower.
 Anthericum—St. Bruno's Lily.
 Antirrhinum—Snapdragon.
 Aquilegia—Columbine.
 Arabis—Rock Cress.
 Arctotis—African Daisy.
 Aristolochia—Dutchman's Pipe.
 Armeria—Sea Pink, Thrift.
 Artemisia absinthium—Wormwood.
 Asclepias—Butterfly Weed.
 Asparagus Fern—Asparagus plumosus.
 Asperula—Waldmeister, Woodruff.
 Baby's Breath—Gypsophila.
 Baby Primrose—Primula Forbesi.
 Bachelor's Button—*Centaurea Gomphrena*, Bellis.
 Balloon Vine—Cardiospermum.
 Balsam—Lady Slipper.
 Balsam Apple—Momordica Balsamina.
 Baptisia—False Indigo.
 Barberry—Berberis.
 Basket of Gold—Alyssum saxatile.
 Beard Tongue—Penstemon.
 Bee Balm—Monarda.
 Bell Flower—Campanula.
 Bellflower Lily—*Lilium canadense*.
 Bellis—Bachelor's Button, English Daisy.
 Berberis—Barberry.
 Bergamot—Monarda.
 Bignonia—Trumpet Vine.
 Black Eyed Susan—Thunbergia.
 Blanket Flower—Gaillardia.
 Blazing Star—Liatris.
 Bleeding Heart—Dielytra.
 Blue Bottle—*Centaurea cyanus*.
 Bluets—*Centaurea cyanus*.
 Bocconia—Plume Poppy.
 Boltonia—False Chamomile.
 Boston Ivy—Ampelopsis Veitchii.
 Boxwood—Buxus.
 Brachycome—Swan River Daisy.
 Bridal Wreath—*Spiraea prunifolia*.
 Briza—Quaking Grass.
 Browallia—Amethyst.
 Buddleya—Butterfly Bush.
 Bush Eschscholtzia—Hunnemannia.
 Buttercup—Trollius.
 Butterfly Bush—Buddleya.
 Butterfly Flower—Schizanthus.
 Butterfly Pea—Centrosema.
 Butterfly Weed—Asclepias.
 Buttonwood—*Platanus orientalis*.
 Buxus—Boxwood.
 Calacia—Tassel Flower.
 Caladium—Elephant Ears.
 Calendula—Pot Marigold.
 California Poppy—Eschscholtzia.
 Callirhoe—Poppy Mallow.
 Calycanthus—Sweet Shrub.
 Campanula calyc. —Cup and Saucer.
 Campanula carpatica—Hare Bell.
 Campion—Lychnis.
 Canarybird Flower—*Tropaeolum Canariense*.
 Candytuft—Iberis.
 Canna—Indian Shot.
 Canterbury Bells—Campanula medium.
 Cape Jessamine—Gardenia florida.
 Cardinal Flower—Lobelia Cardinalis.
 Castor Oil Beans—Ricinus.
 Catchfly—Silene.
 Catalpa—Umbrella Tree.
 Centaurea cyanus—Bachelor's Button, Cornflower, Blue Bottle, Bluets, Ragged Sailor.
 Centaurea moschata—Sweet Sultan.
 Centrosema—Butterfly Pea.
 Celosia cristata—Cockscomb.
 Cerastium—Snow in the Summer.
 Cercis—Judas Tree.
 Chinese Bell Flower—Platycodon.
 Chinese Lantern Plant—Physalis.
 Christmas Rose—Helleborus Niger.
 Chrysanthemum frutescens—Marguerite, Paris Daisy.
 Cigar Plant—Cuphea platycentra.
 Clove Pinks—Dianthus plumarius.
 Cockscomb—Celosia cristata.
 Coix—Job's Tears.
 Columbine—Aquilegia.
 Cone Flower—Rudbeckia.
 Convallaria—Lily of the Valley.
 Convolvulus—Morning Glory.
 Coral Lily—*Lilium tenuifolium*.
 Cornflower Aster—Stokesia.
 Cornflower—*Centaurea cyanus*.
 Cornus florida—Dogwood.
 Cowslip—Primula veris.
 Crane's Bill—Geranium.
 Crataegus—Hawthorn.
 Cup and Saucer—Campanula calyc.
 Cuphea platycentra—Cigar plant.
 Cycas—Sago Palm.
 Cyperus—Umbrella Plant.
 Cypress Vine—Ipomea Quamoclit.
 Cytisus—Golden Chain.
 Daisy—Bellis perennis.
 Datura cornucopia—Horn of Plenty.
 Datura—Trumpet Flower.
 Day Lily—Funkia, Hemerocallis.
 Delphinium—Larkspur.
 Dianthus barbatus—Sweet William.
 Dianthus—Pinks.
 Dianthus plumarius—Clove Pinks.
 Dielytra—Bleeding Heart.
 Dictamnus—Gas Plant.
 Digitalis—Foxglove.
 Dimorphotheca—Orange Daisy.
 Dogwood—Cornus florida.
 Dolichos—Hyacinth Beans.
 Doronicum—Leopard's Bane.
 Dusty Miller—*Centaurea gymnocarpa*.
 Dusty Miller—Cineraria Maritima.
 Dutchman's Pipe—Aristolochia.
 Echinops—Globe Thistle.
 Echinocystis—Wild Cucumber.
 Edelweiss—Gnaphalium.
 Egyptian Lotus—Nelumbium.
 Elephant Ears—Caladium.
 English Daisy—Bellis.
 English Primrose—Primula vulgaris.
 Erianthus—Plume Grass.
 Eryngium—Sea Holly.
 Eulalia—Zebra Grass.
 Euphorbia—Mexican Fire Plant.
 Evening Primrose—Oenothera.
 Everlastings—Acroclonium, Gomphrena, Helichrysum, Rhodanthe, Xeranthemum.
 Everlasting Pea—Lathyrus latifolius.
 Exochorda grandiflora—Pearl Bush.
 Fairy Lily—Zephyranthes.
 False Chamomile—Boltonia.
 False Dragon Head—Physostegia.
 False Indigo—Baptisia.
 Feather Grass—Stipa.
 Feverfew—Matricaria.
 Flax—Linum.
 Fleur de lis—Iris germanica.
 Floss Flower—Ageratum.
 Flowering Maple—Abutilon.
 Flowering Tobacco—Nicotiana.
 Forget-me-not—Myosotis.
 Forsythia—Golden Bell.
 Fountain Grass—Pennisetum.
 Four o'clocks—Mirabilis.
 Foxglove—Digitalis.
 Fuchsia—Lady's Ear Drop.
 Funkia—Day Lily.
 Gaillardia—Blanket Flower.
 Gardener's Garters—Phalaris.
 Garden Heliotrope—Valeriana.
 Gardenia florida—Cape Jessamine.
 Gay Feather—Liatris.
 Gas Plant—Dictamnus.
 Gentian—Gentiana.
 Geranium—Crane's Bill.
 Gilliflower—Sticks.
 Globe Amaranth—Gomphrena.
 Globe Flower—Trollius.
 Globe Thistle—Echinops.
 Gnaphalium—Edelweiss.
 Gold Dust—Alyssum saxatile.
 Golden Bell—Forsythia.
 Golden Chain—Cytisus.
 Golden Feather—Pyrethrum aureum.
 Golden Rod—Solidago.
 Gomphrena—Everlastings, Globe Amaranth, Bachelor's Button.
 Grass Pinks—Dianthus plumarius.
 Gynierum—Pampas Grass.
 Gypsophila—Baby's Breath.
 Hare Bell—Campanula carpatica.
 Hawthorn—Crataegus.
 Heart's Ease—Pansy.
 Helianthemum—Sneezewort.
 Helianthemum—Rock Rose.
 Helianthus—Sunflower.
 Helichrysum—Everlasting, Strawflower.
 Helleborus niger—Christmas Rose.
 Helmet Flower—Aconitum.
 Hemerocallis—Day Lily.
 Hesperis—Sweet Rocket, Rocket.
 Heuchera—Alum Root.
 Hollyhocks—Althaea rosea.
 Honesty—Lunaria.
 Hops—Humulus.
 Hordeum—Squirrel Tail Grass.
 Horn of Plenty—Datura cornucopia.
 Hunnemannia—Bush Eschscholtzia.
 Hyacinth Beans—Dolichos.
 Ice Plant—Mesembryanthemum.
 Indian Shot—Canna.
 Ipomea noctiflora—Moonflower.
 Ipomea Quamoclit—Cypress Vine.
 Jacobean Lily—Amaryllis formos.
 Jacobaea—Senecio.
 Japan Pinks—Dianthus Hedderwigii.
 Jerusalem Cherry—Solanum capsicastrum.
 Job's Tears—Coix.
 Judas Tree—Cercis.
 Joseph's Coat—Amaranthus tricolor.
 Kalmia latifolia—Mountain Laurel.
 Kenilworth Ivy—Linaria cymbalaria.
 Kochia—Mexican Fire Bush, Summer Cypress.
 Kudzu Vine—Pueraria.
 Lady's Ear Drop—Fuchsia.
 Lady's Slipper—Balsam.
 Larkspur—Delphinium.
 Lathyrus latifolius—Everlasting Pea.
 Leadwort—Plumbago.
 Lemon Verbena—Aloysia citriodora.
 Leopard's Bane—Doronicum.
 Liatris—Gay Feather.
 Lilac—Syringa.
 Lily of the Valley—Convallaria.
 Lobelia cardinalis—Cardinal Flower.
 Loose Strife—Lythrum.
 Love Grove—Nemophila.
 Love in a Mist—Nigella.
 Love Lies Bleeding—Amaranthus caudatus.
 Linaria cymbalaria—Kenilworth Ivy.
 Luffa—Cucumis acutangulus.
 Lunaria—Honesty, Moonwort.
 Lychnis—Campion.
 Lychnis—Ragged Robin, Rose Campion.
 Lythrum—Loose Strife.
 Maiden Hair Fern—Adiantum.
 Mallow—Hibiscus.
 Marguerite—Chrysanthemum frutescens.
 Marigold—Tagetes.
 Marshmallow—Hibiscus.
 Marvel of Peru—Mirabilis.
 Mathiola—Night Scented Stock.
 Matricaria—Feverfew.
 Meadow Rue—Thalictrum.
 Mesembryanthemum—Ice Plant.
 Mexican Fire Bush—Kochia.
 Mexican Fire Plant—Euphorbia.
 Michaelmas Daisy—Aster perennis.
 Mignonette—Reseda.
 Mimosa—Sensitive Plant.
 Mimulus moschatus—Musk Plant.
 Mirabilis—Four o'clocks, Marvel of Peru.
 Mock Orange—Philadelphus.
 Momordica Balsamina—Balsam Apple.
 Monarda—Bee Balm, Bergamot.
 Monk's Hood—Aconitum.
 Moonflower—Ipomea noctiflora.
 Moonwort—Lunaria.
 Morning Glory—Convolvulus.
 Moss Pink—Phlox subulata.
 Mountain Fringe—Adlumia.
 Mountain Laurel—Kalmia latifolia.
 Mourning Bride—Scabiosa.
 Musa ensete—Abyssinian Banana.
 Musk Plant—Mimulus moschatus.
 Myosotis—Forget-me-not.
 Myrtle—Vinca minor.
 Nelumbium—Egyptian Lotus.
 Nemophila—Love Grove.
 Nicotiana—Flowering Tobacco.
 Nigella—Love in a Mist.
 Night Scented Stock—Mathiola.
 Oenothera—Evening Primrose.
 Orange Daisy—Dimorphotheca.
 Ox-eye—Adonis vernalis.
 Painted Tongue—Salpiglossis.
 Pampas Grass—Gynierum.
 Parnassia—Lily.
 Paris Daisy—Chrysanthemum frutescens.
 Passiflora—Passion Flower.
 Passion Flower—Passiflora.
 Peach Bells—Campanula persicifolia.
 Pearl Bush—Exochorda grandiflora.
 Periwinkle—Vinca.
 Phalaris—Gardener's Garters.
 Phalaris—Ribbon Grass.
 Pheasant's Eye—Adonis aestivalis.
 Philadelphia—Mock Orange.
 Phlox drummondii—Flame Flower.
 Phlox subulata—Moss Pink.
 Pincushion Flower—Scabiosa.
 Pinks—Dianthus.
 Platanus orientalis—Buttonwood.
 Platycodon—Chinese Bell Flower.
 Plumbago—Leadwort.
 Plume Grass—Erianthus.
 Plume Poppy—Bocconia.
 Polyanthus—Primula elatior.
 Poppy Mallow—Callirhoe.
 Poppy—Papaver.
 Pot Marigold—Calendula.
 Pueraria—Kudzu Vine.
 Pyrethrum aureum—Golden Feather.
 Quaking Grass—Briza.
 Rag Gourd—Cucumis acutangulus.
 Ragged Robin—Lychnis.
 Ragged Sailor—*Centaurea cyanus*.
 Red Bud—Cercis canadensis.
 Red Hot Poker Plant—Tritoma.
 Reed—Arundo donax.
 Reseda—Mignonette.
 Rhodanthe—Everlastings.
 Ribbon Grass—Phalaris.
 Rock Cress—Arabis.
 Rocket—Hesperis.
 Rock Rose—Helianthemum.
 Rose Campion—Agrostemma.
 Rose Campion—Lychnis.
 Rose of Sharon—Althaea.
 Rudbeckia—Cone Flower.
 Sago Palm—Cycas.
 Salpiglossis—Painted Tongue.
 Salvia splendens—Scarlet Sage.
 Saponaria—Soapwort.
 Satin Flower—Godelia.
 Scabiosa—Mourning Bride.
 Scabiosa—Pincushion Flower.
 Scarlet Sage—Salvia splendens.
 Schizanthus—Butterfly Flower.
 Sea Bugloss—Anchusa.
 Sea Lavender—Statice.
 Sea Holly—Eryngium.
 Sea Pink—Armeria.
 Sedum—Stonecrop.
 Senecio—Jacobaea.
 Sensitive Plant—Mimosa.
 Silene—Catchfly.
 Silk Oak—Grevillea.
 Snapdragon—Antirrhinum.
 Sneezewort—Helenium.
 "—Achillea.
 Snowball—Viburnum.
 Snowberry—Symphoricarpos.
 Snow in the Summer—Cerastium.
 Snow on the Mountain—Euphorbia.
 Soapwort—Saponaria.
 Solanum capsicastrum—Jerusalem Cherry.
 Solidago—Golden Rod.
 Speedwell—Veronica.
 Spider Plant—Cleome.
 Squirrel Tail Grass—Hordeum.
 Star of Bethlehem—Ornithogalum.
 Statice—Sea Lavender.
 St. Bruno's Lily—Anthericum.
 St. John's Wort—Hypericum.
 Stonecrop—Sedum.
 Stipa—Feather Grass.
 Stocks—Gilliflower.
 Stokesia—Cornflower Aster.
 Strawflower—Helichrysum.
 Summer Cypress—Kochia.
 Sunflower—Helianthus.
 Symphoricarpos—Snowberry.
 Syringa—Lilac.
 Swan River Daisy—Brachycome.
 Sweet Pepper Bush—Chitra.
 Sweet Rocket—Hesperis.
 Sweet Shrub—Calycanthus.
 Sweet Sultan—*Centaurea moschata*.
 Sweet William—Dianthus barbatus.
 Tagetes—Marigold.
 Tassel Flower—Calacia.
 Thrift—Armeria.
 Thunbergia—Black Eyed Susan.
 Tobacco—Nicotiana.
 Transvaal Daisy—Gerbera.
 Trillium—Wake Robin, Wood Lily.
 Tritoma—Red Hot Poker.
 Trollius—Buttercup.
 Trumpet Flower—Datura.
 Trumpet Vine—Bignonia.
 Tufted Pansies—Viola cornuta.
 Turk's Cap Lily—*Lilium superbum*.
 Valeriana—Garden Heliotrope.
 Viburnum—Snowball.
 Vinca minor—Myrtle.
 Vinca—Periwinkle.
 Viola cornuta—Tufted Pansies.
 Virgin's Bower—Clematis.
 Virginia Creeper—Ampelopsis quinquefolia.
 Umbrella Plant—Cyperus.
 Umbrella Tree—Catalpa.
 Waldmeister—Asperula.
 Wallflower—Cheiranthus.
 Wake Robin—Trillium.
 Wild Cucumber—Echinocystis.
 Windflower—Anemone.
 Wolf's Bane—Aconitum.
 Wood Lily—Trillium.
 Wood Fern—Aspidium.
 Woodruff—Asperula.
 Wormwood—Artemisia absinthium.
 Xeranthemum—Everlastings.
 Yarrow—Achillea.
 Youth and Old Age—Zinnia.
 Yucca—Adam's Needle.
 Zebra Grass—Eulalia.
 Zephyranthes—Fairy Lily.

114 MICHELL'S SUMMER FLOWERING BULBS



AMARYLLIS

For a practical showy house plant there is nothing of easier culture than these gorgeous lily-like flowers. Once potted they can remain in the same pot for years; increasing each year the number of flowers.

Cultural Directions: Place bulbs, on arrival, in damp moss in temperature of 60° and allow the flowering shoot to appear before the bulb is potted. When the plant is in progress of blooming water freely, other times sparingly.

Belladonna. A beautiful bright pink. 15c. each; doz., \$1.50.

Formosissima. Crimson. 10c. each; per doz., \$1.00.

Hybrids of Vittata. Beautiful species, flowers striped and flaked. 50c. each; per doz., \$5.00.

Johnsoni. A very large crimson sort, striped white. This variety is the best of the every day sorts, the flower is very large and showy. Every collection of Amaryllis should include this one. Mammoth bulbs. 50c. each; per doz., \$5.00. Good size bulbs, 35c. each; per doz., \$3.50.

SMALL AMARYLLIS OR ZEPHYRANTHES (Fairy Lily)

These are strictly outdoor flowers but not hardy and must be lifted every fall. The sweet lily-like blossoms appear soon after the bulb is planted in May and continue during the entire season.

	Each	Doz.	100
Treata Rosea. Pink flowers	\$0.06	\$0.60	\$4.50
Treata Alba. Purest white .....	.06	.60	4.50

MICHELL'S BULB GROWING GUIDE

This is an instructive book on the culture of the leading varieties of bulbs, including those offered on this page. We will be glad to include one with your order, free, if asked for.

TESTIMONIAL

I wish to thank you for the quality of the bulbs sent in my previous order. They were all excellent and I am expecting a fine crop from them.

N. B. STEPHENS.

NEW BEGONIA CRISPA

The edge of each flower petal is exquisitely frilled and crested, giving unto the flower a charming appearance. The illustration below, which was made from an actual bloom, will convey some idea of its beauty. Every one who grows Tuberous Begonias should plant some of this variety.

Mixed Colors. 12c. each; doz., \$1.20; \$8.00 per 100.

Separate Colors. 15c. each; doz., \$1.50; \$10.00 per 100.

BEGONIAS (Tuberous Rooted)

There hardly is a single garden in which there are semi or entirely shaded spots where the average flower will not grow; such places are ideal for this flower; yet it will make a dazzling show in the open. Enormous wax-like flowers appear uninterruptedly from June till frost. The bright flowers contrast well with the deep-colored foliage. The bulbs must be lifted in the fall. If you have never grown them, try them this year; start your bulbs in March and have flowers in June. Plant bulbs outdoors not before May 1st.

SINGLE VARIETIES

	Each	Doz.	100		Each	Doz.	100
Crimson	10c.	\$0.75	\$5.00	Scarlet	10c.	\$0.75	\$5.00
Orange	10c.	.75	5.00	White	10c.	.75	5.00
Pink	10c.	.75	5.00	Yellow	10c.	.75	5.00
Mixed					7c.	.60	4.50

DOUBLE VARIETIES

	Each	Doz.	100
In separate colors as above	\$0.15	\$1.25	\$8.00
Mixed, all colors .....	.12	1.20	8.00

NAMED VARIETIES

Lafayette. Brilliant crimson	\$0.20	\$2.00	\$15.00
Graf Zeppelin. Double; vermilion .....	.15	1.50	11.00
Bertini. Brilliant vermilion; single .....	.15	1.50	11.00
Cardinal. Rich cardinal red .....	.25	2.25	15.00

Please add 5c. per dozen for mailing Begonia Bulbs. Single bulbs mailed free.

TUBEROUS BEGONIA PLANTS (Ready in May)

	Each	Doz.	100
Single. Mixed colors	\$0.15	\$1.50	\$10.00
Double. Mixed colors .....	.20	2.00	15.00



New Tuberous Begonia, Crispa Type



CALADIUM ESCULENTUM (Elephant's Ear)

As centre pieces or specimens in flower beds Caladiums answer well. They also make an excellent edging for tall growing plants. When planted in a bed alone, a border of Scarlet Sage makes a beautiful contrast. Do not plant Caladiums outdoors until after May 1st, but to get them in early growth, they may be started indoors.

	Each	Doz.	100	If wanted by mail add for each bulb postage
Monster Bulbs	\$0.30	\$3.25	\$20.00	\$0.05
Mammoth Bulbs .....	.25	2.50	15.00	.04
First Size Bulbs .....	.10	1.10	8.00	.03
Second Size Bulbs .....	.07	.75	5.00	.02

GLOXINIAS



Illustration of a Gloxinia Flower

A gorgeous plant either for conservatory or garden. They prefer a moist soil and a shady situation. Bulbs may be started as early as January but should not be set outdoors until after May 15th. Bulbs must be lifted in the fall.

	Each	Doz.	100
Waterloo. Deep purple	\$0.20	\$2.00	\$15.00
Meteor. Carmine, edged white .....	.20	2.00	15.00
Graf Zeppelin. Carmine fringed.....	.20	2.00	15.00
Nixe. White, bordered blue .....	.20	2.00	15.00
Marienthaler Kind. Deep crimson .....	.20	2.00	15.00
Unnamed varieties in the following colors: Red and Scarlet.			
White, Blue, White Spotted Scarlet, Scarlet Bordered			
White, Blue Bordered White. 15c. each; per doz., \$1.25;			
\$8.00 per 100.			
Mixed Colors, 10c. each; per doz., \$1.00; \$6.00 per 100.			
Single bulbs mailed free; for dozen lots add 10c. for postage.			

FANCY LEAVED CALADIUMS

(Ready in March)

Most charming conservatory plants. Being of tropical nature, they like a warm temperature. They do quite well outdoors during the summer, if planted in a sheltered, shaded place. The foliage covers a wide range of colors, and makes a grand display. The bulbs should be started in moss with plenty of bottom heat.

Charles Simpson. Bluish green, spotted red creamy white ribs.

Coimbra. White suffused green, red veins and ribs.

Frances M. Laughlin. Transparent rose centre, yellowish zone, green border.

Jacupiranga. Transparent white with green veins.

Jupiter. Red centre, green border, spotted white.

Leopold Robert. Deep red crimson ribs, green border.

Lord Derby. Rose, green ribs and veins.

Macache. Variable, green suffused pink, with red ribs.

Prince Albert Edward. Red, suffused pink, narrow green border.

Putomayo. Pink, spotted strawberry red.

Shellpink. Centre shell pink, deep red veins, grayish white border.

Silver Queen. Pure white.

Any of the above named sorts, 25c. each; doz., \$2.50; 100, \$17.50.



Fancy Leaved Caladium

CALLAS

Elliottiana (Yellow Calla). This beautiful novelty should be extensively planted. The contrast of the golden yellow flowers placed among other blooms and foliage is truly remarkable, making a beautiful sight. The spotted foliage shows the flower off, when using it as a pot plant, to a great effect. In a short time this new variety will be wonderfully popular on account of its beauty and of its low price. 20c. each; doz., \$2.00; \$15.00 per 100.



Calla Elliottiana

	Each	Per doz
Black Callas	\$0.15	\$1.50
Spotted Callas .....	.10	1.00

The above Callas make very useful summer blooming plants, the spotted variety may be treated somewhat like the white, winter blooming kind; the Black variety requires very little water until fully started.

Single bulbs of Callas postpaid; if dozen lots are wanted by mail, add 10c. for postage.

CANNAS. (See pages 118-119)

CYCAS REVOLUTA (Sago Palm)

These interesting as well as ornamental plants may be grown from the dormant (leafless) trunk or stem with great success. Fine strong, dormant stems, ready about March 1st. 15c. lb.; 5 lbs., 65c. Allow for postage if wanted by mail.

SUMMER HYACINTH

(*Hyacinthus Candicans*)

These are especially attractive, when planted in masses in solid beds or borders. In July and August they produce spikes about 2 feet long, which are covered with bell-shaped white flowers. They remain in bloom a long while and for that reason should be planted extensively. The bulbs should be taken up at the approach of winter and stored in a cool cellar. Handled in this manner the bulbs can be saved from year to year. Large bulbs, 5c. each; doz., 50c.; \$3.50 per 100. *Parcel Post Weight*, 2 lbs. per doz.

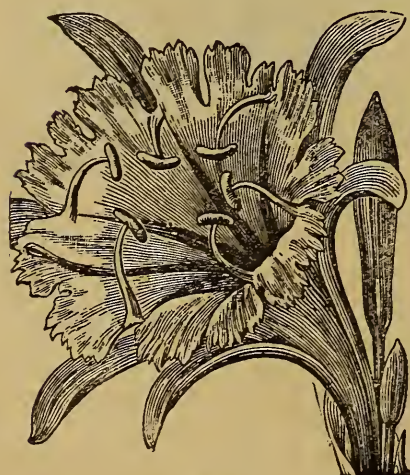


Summer Hyacinth

ISMENE CALATHINA

(*Pancratium Lily* or *Peruvian Daffodil*)

One of the choicest of our summer flowering bulbs, blooming profusely during the entire season, flowers a beautiful waxy white and deliciously fragrant. Bulbs are not hardy and should be removed to the house in October. If desired, they can be flowered indoors by starting the bulbs about January 1st and treating somewhat like an *Amaryllis*. Large bulbs, 15c. each; doz., \$1.50; \$10.00 per 100. *Parcel Post Weight*, 2 lbs. per doz.



Ismene



Pearl Tuberose

MONTBRETIA

A beautiful flowering bulb resembling a miniature *Gladioli*, absolutely hardy, and only effective if planted in masses from 50 to 100 bulbs in a clump. They are fine for cutting, being very showy, the orange scarlet and yellow shades being especially attractive. Height, 24 inches.



Montbretia

Crocsmiaeflora Type. Scarlet and yellow.

Aurantiaca. Deep golden yellow.

Etoile de Feu. Vermilion with yellow centre.

Pottsi. Large, orange scarlet.

Speciosa. Golden yellow.

Rayon d'Or. Light yellow, spotted brown.

Any of the above, 3c. each; doz., 30c.; 100, \$2.25; 1000, \$17.50. If wanted by mail add 5c. per doz. and 15c. per 100 for postage.

OXALIS (Summer Blooming)

Deppii. White, small flowers. 2c. each; doz., 15c.; 100, \$1.00.

Lasiandra. Pink flowers. 2c. each; doz., 15c.; \$1.00 per 100.

TUBEROSES

Beautiful pure white flowers appearing in August, of wonderful fragrance.

Excelsior Pearl. Pure white. 3c. each; doz., 25c.; 100, \$1.50.

Excelsior Pearl. Mammoth bulbs. 5c. each; doz., 50c.; \$3.00 per 100.

Albino. Single white. 5c. each; doz., 40c.; \$2.50 per 100.

Single bulbs mailed free, add 10c. per doz. for mailing larger quantities.

LILY OF THE VALLEY

Clumps. For outdoors only. 25c. each; doz., \$2.50; 100, \$18.00.

Cold Storage, Michell's Fancy Giant Flowering. The finest procurable. These can be forced into flower in about 22 days; our stock is extra fine. 50 for \$1.75; \$3.00 per 100; 250 for \$7.00.

(Cold storage Lily of the Valley, not supplied in quantities less than 50.)

FERN BALLS

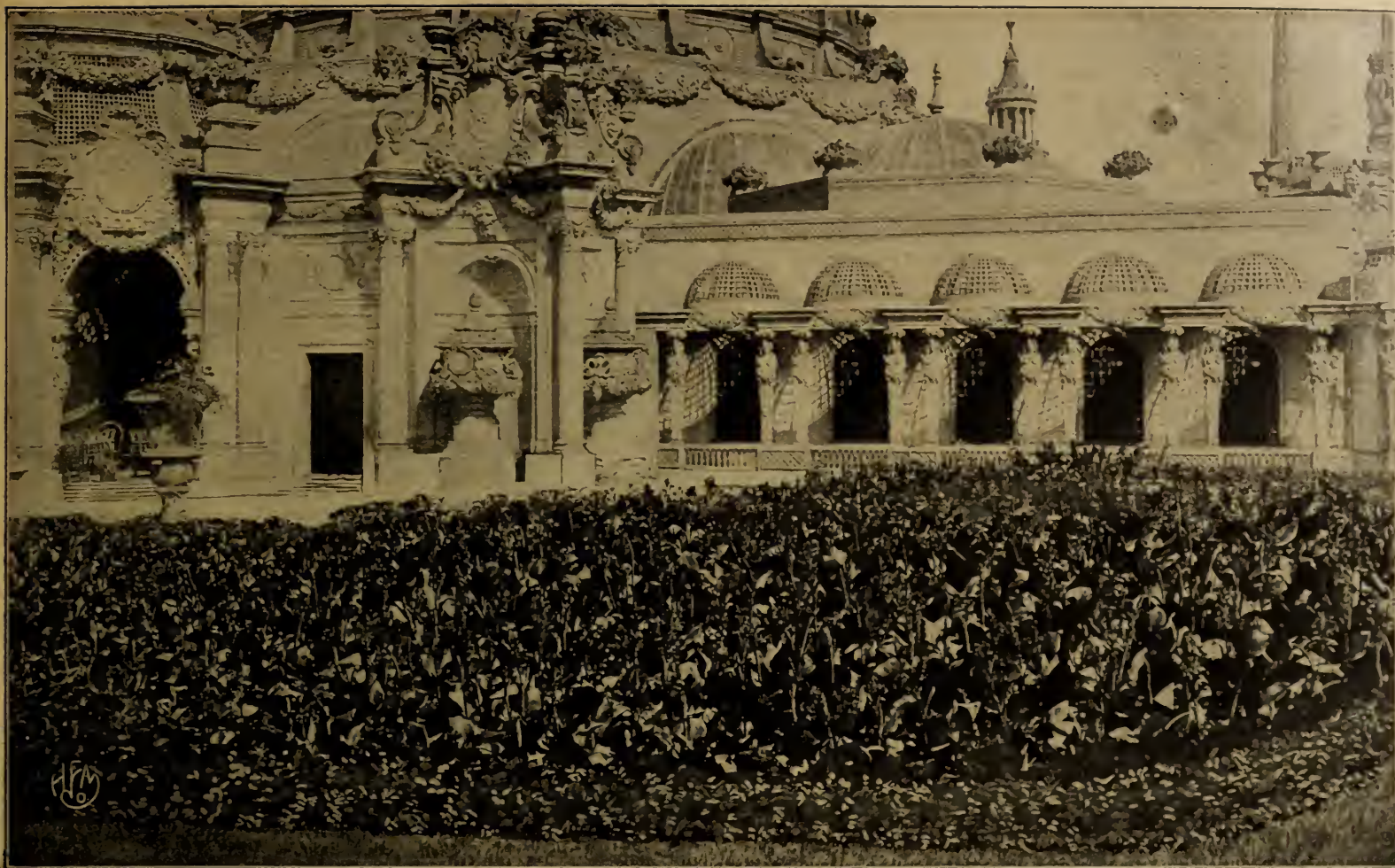
(Dormant)

A very attractive novelty. Full cultural directions accompany each ball if asked for. Extra large size, 40c. each; per doz., \$4.00. Medium size, 30c. each; doz., \$3.00.



6 Bulbs of any one variety at dozen rates; 25 at 100 rates; 250 at 1000 rates

(ha)



Michell's Cannas around the Building of Horticulture at the Panama-Pacific Exposition, San Francisco, 1915, where the Display was awarded a Silver Medal by the Judges of Horticultural Displays.

MICHELL'S CHOICE CANNAS (Newer Varieties and those of Special Merit)

We make a specialty of growing cannas at our nurseries, Andalusia, Pa., where acres of them are a blaze of color throughout the summer. In ordering please state if plants or roots are wanted. If order does not so state we will send roots as long as our stock permits. Canna plants are ready in May.

Please Note.—The heights as given for Canna Plants are as they average in our nurseries. This height may vary; depending on soil, weather and climatic conditions.

Dr. E. Ackerknecht. Deep carmine of a distinct shade, with light bronzy foliage; height, 4½ feet. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Strong plants** ready in May, 25c. each; doz., \$2.75; \$20.00 per 100.

General Merkel. Blooms with remarkable freedom throughout the summer. The flowers are a remarkable combination, being bright scarlet with a blending of orange, splashed golden yellow at the edge of the petals. **Roots**, 25c. each; doz., \$2.00; \$15.00 per 100. **Plants** ready in May, 25c. each; doz., \$2.75; \$20.00 per 100.

Gustave Gumpper. A rich golden yellow flower of large size, borne on heavy trusses. It is a distinct shade, and no other variety of this color can be compared with it. Green foliage; height, 3½ to 4 feet. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Strong plants** ready after May 1st, 25c. each; doz., \$2.75; \$20.00 per 100.

Harry Laing. Beautiful rich scarlet flowers, suffused orange, a startler for color and one that will appeal to canna lovers. Green foliage growing 5 feet. **Roots**, 25c. each; doz., \$2.50; \$17.50 per 100. **Plants** ready in May, 30c. each; doz., \$3.00; \$22.50 per 100.

Kate F. Deemer. The flowers, when first open, are yellow, which changes as it ages, so that the lower petals and the throat are red, the balance of the flower assumes a light shade almost white; this variety is one that should be in every collection; green foliage; height, 4 to 5 feet. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Plants** ready in May, 25c. each; doz., \$2.75; \$20.00 per 100.

Louis Reverchon. A dark leaved large flowering cochineal-red variety. It is very free flowering and will immediately win favor with Canna growers; height, 4½ feet. **Roots**, 15c. each; doz., \$1.50; \$10.00 per 100. **Strong plants** ready May 1st, 20c. each; doz., \$2.00; \$15.00 per 100.

Meteor. Of compact growth; broad green foliage, surmounted with large heads of bright red flowers; grows about 4½ feet high. **Roots**, 25c. each; doz., \$2.50; \$17.50 per 100. **Strong plants** ready in May, 30c. each; doz., \$3.00; \$22.50 per 100.

Mont Blanc (Improved). Creamy white, large flowers; shows off to best advantage when massed as a centre planting, surrounded by other varieties; green foliage; height, about 4 feet. **Roots**, 15c. each; doz., \$1.50; \$10.00 per 100. **Strong plants** ready May 1st, 20c. each; doz., \$2.00; \$15.00 per 100.

118 MICHELL'S CHOICE CANNAS (NEWER VARIETIES AND THOSE OF SPECIAL MERIT) *Continued*

Mrs. Alfred F. Conard. The greatest achievement in the line of cannas of the modern age. The gigantic flowers, which are borne in immense clusters on stalks often 5 and 6 feet tall, are of a delightful salmon pink, a shade which becomes more brilliant as the flower develops and which has never before been approached in cannas. The foliage is light green and grows almost to the flower, presenting a splendid contrast. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Strong plants** ready after May 1st, 25c. each; doz., \$2.75; \$20.00 per 100.

Olympic. Rich glowing deep red, shaded lighter toward the centre of the petals and throat, with a splashing of carmine. The flower trusses are of enormous size; green foliage; 4 to 5 feet. **Roots**, 35c. each; doz., \$3.50. **Plants** ready in May, 40c. each; doz., \$4.00.

Panama. A combination of color that is odd yet beautiful; the face of the petals, which is orange red, are encircled with a broad edge of golden yellow. It is a free bloomer and of gigantic size; green foliage; 3½ feet. **Roots**, 35c. each; doz., \$3.50. **Plants** ready in May, 40c. each; doz., \$4.00.

Pink Beauty of Hungaria. The plant habit is rather dwarf and of compact growth. The magnificent trusses of rich peach blossom pink are the finest imaginable. It is a tree, early and continuous bloomer, lasting right up to November in the latitude of Philadelphia. The shade is one that will immediately arrest the eye and really must be seen to be appreciated. A large block of these, growing at our nurseries the past summer, caused great excitement. Every one who saw them, stood in bewilderment at their marvelous richness and beauty. The foliage is a rich green and very massive. Our stock is limited and we advise all, who want the finest pink large-flowering Canna in existence, to order at once. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Strong plants** ready after May 1st, 25c. each; doz., \$2.75; \$20.00 per 100.

Rosea Gigantea. A wonderful novelty, the largest of all cannas in existence; color, a rich rose pink; flowers free, foliage green; height, 4 feet. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Strong plants** ready after May 1st, 25c. each; doz., \$2.75; \$20.00 per 100.



Canna, Mrs. Alfred F. Conard

Venus. Rosy pink with a mottled border of creamy yellow; flowers abundantly with heads erect; foliage green; height, 4 feet. **Roots**, 15c. each; doz., \$1.50; \$10.00 per 100. **Strong plants** ready after May 1st, 20c. each; doz., \$2.00; 100, \$15.00.

Wawa. A real good pink. The plants are medium dwarf, about 3 feet; flowers in immense clusters over rich green foliage. **Roots**, 15c. each; doz., \$1.50; \$10.00 per 100. **Strong plants** ready after May 1st, 20c. each; doz., \$2.00; 100, \$15.00.

Wm. Griessinger. Rich yellow with dots of bright red, a beautiful variety and a great improvement in this combination of colors. **Roots**, 20c. each; doz., \$2.00; \$15.00 per 100. **Plants** ready in May, 25c. each; doz., \$2.75; \$20.00 per 100.

Wyoming. Deep bronze foliage, with large flower heads of a beautiful orange shade. This variety rivals with King Humbert; height about 4 feet. **Roots**, 15c. each; doz., \$1.50; \$10.00 per 100. **Strong plants** ready May 1st, 20c. each; doz., \$2.00; \$15.00 per 100.

SPECIAL NOTE.—Unless otherwise ordered Cannas will be furnished in roots as far as possible. When roots are exhausted we will supply plants after May 1st (at the prices quoted for plants). If Canna Roots are wanted by parcel post, add 10c. per doz. for mailing charges; plants travel best by express.

New Canna, "Pink Beauty of Hungaria"



Canna, Richard Wallace

ORANGE, RED AND CRIMSON

King Humbert. Truly a king among the cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a centre, edged with a dwarf yellow canna or vice versa, placing it around a centre of a tall yellow variety. Roots 15c. each; doz., \$1.25; \$9.00 per 100. Plants 20c. each; doz., \$1.75; \$12.50 per 100.

Dr. E. Ackerknecht. Deep carmine. See page 117.

Harry Laing. Rich scarlet, suffused orange. See page 117.

Louis Reverchon. Cochineal red. See page 117.

Meteor. Bright red; immense flower trusses. See page 117.

Olympic. Rich glowing deep red. See page 118.

Wyoming. Orange red; bronze foliage. See page 118.

Alphonse Bouvier. Rich velvety red; green foliage; 6 feet high.

Brandywine. Very dark foliage, topped with a magnificent display of brilliant red flowers; bronze foliage; 4 ft. high.

Compte de Sachs. Clear bright scarlet; large trusses; green foliage; 4 feet high.

Crimson Bedder. Dark red, fine shapely flowers in large trusses; green foliage; 4 feet high.

Charles Henderson. Splendid, handsome trusses of large size; extremely free flowering; green foliage; 4 feet high.

Egandale. A splendid bronze-leaved variety, with large cherry red flowers; bronze foliage; 4 feet high.

Express. One of the most satisfactory dwarf crimson cannas; a continuous bloomer; green foliage; 2½ feet high.

Wm. Saunders. Bright scarlet; bronze foliage; 4 feet high.

President Meyer. Cherry red, fine truss; bronze foliage; 4 feet high.

President McKinley. Brilliant crimson flowers; beautifully formed; deep green foliage; 3 feet high.

NOTE OF PRICES.—Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with well-developed plants of any variety on this page (except where noted). 20c. each; doz., \$1.50; per 100, \$10.00. Price of roots (except where noted), 15c. each; doz., \$1.25; \$8.00 per 100. Where plants are wanted of varieties priced at 15c. each; doz., \$1.50; \$10.00 per 100, the price will be 20c. each; doz., \$2.00; \$15.00 per 100. If Canna Roots are wanted by mail, allow 10c. per doz. for postage. Canna Plants travel best by express.

See also pages 117 and 118 for Newer Cannas and varieties of special merit.

YELLOW AND WHITE SHADES

Alsace. Pale sulphur, changing to cream; green foliage.

Austria. A tall-growing variety with gigantic blooms of a satiny texture, pure golden yellow; 6 feet high; foliage green.

Mont Blanc. Creamy white. See page 117.

Richard Wallace. A remarkably free bloomer, producing gigantic clusters of light yellow flowers. It stands quite erect, about 4 feet high and is one of the best yellow cannas on our list; green foliage.

PINK

Minnehaha. Very light pink, shaded peach; foliage green; 4 feet.

Mrs. Alfred F. Conard (New). A beautiful salmon pink; foliage green; 5 to 6 feet. Roots, 20c. each; doz., \$2.00; per 100, \$15.00. Plants ready in May. 25c. each; doz., \$2.75; \$20.00 per 100.

Pink Beauty of Hungaria (New). Rich peach blossom pink. Large trusses. The finest dwarf pink variety; green foliage; 3 feet. Roots, 20c. each; doz., \$2.00; \$15.00 per 100. Plants ready in May. 25c. each; doz., \$2.75; \$20.00 per 100.

Rosea Gigantea (New). Rich rose pink; green foliage; 4 feet high. Roots, 20c. each; doz., \$2.00; \$15.00 per 100. Plants ready in May. 25c. each; doz., \$2.75; \$20.00 per 100.

Venus. Rosy pink with mottled border of creamy yellow; free bloomer; green foliage; 4 feet high. Roots, 15c. each; doz., \$1.50; \$10.00 per 100.

Wawa (New). A very soft shade of pink; foliage green; 3 feet. Roots, 15c. each; doz., \$1.50; \$10.00 per 100.

Hiawatha. Rich rosy pink; variegated foliage; 3 feet high.

Mad. Berat. Brilliant pink; green foliage; 4 feet high.

BICOLORED

Florence Vaughan. Yellow, spotted crimson; green foliage; 5 feet high.

Gladiator. Yellow, spotted red; green foliage; 4 feet high.

Italia. Golden blotched crimson, orchid type; green foliage; 5 feet high.

Mme. Crozy. Scarlet, bordered yellow; green foliage; 3 feet high.

Niagara. Rich crimson, edged gold; green foliage; 3 ft. high.

Queen Charlotte. Crimson, bordered gold; green foliage; 3 feet high.

Brilliant. Pure golden yellow, with two tongue-like petals of fiery red; green foliage; 4 feet high.

Gladio-Flora (New). Resembles a Gladiolus flower. A vivid crimson, changing to carmine pink, edged yellow; green foliage; 3 feet high.

Gen'l Merkel. Bright scarlet, splashed yellow. See page 117.

Kate F. Deemer. Yellow, marked red. See page 117.

Panama. Red, edged yellow. See page 118.

Eldorado. Rich yellow, flamed red; green foliage; 4 ft. high.

Wm. Griessinger. Rich yellow, spotted red. See page 118.

ORNAMENTAL FOLIAGE CANNAS

Black Beauty (Improved). Effective. The leaves are enormous and of a rich deep bronze purple color. Height, 6 ft.

Robusta Perfecta. Immense dark green leaves with small red flowers; height, 7 feet. Each, 8c.; 75c. doz.; 100, \$5.00.

Musafolia. Named by its close resemblance to the old-fashioned Abyssinian Banana (*Musa Ensete*). The red flowers are small; green foliage. A grand variety for background of a border; height, 6 feet.

CANNAS IN MIXTURE

Mixed Dwarf French. Containing the best sorts only. Each, 5c.; 50c. per doz.; per 100, \$3.50.

Tall Sorts Mixed. Elegant varieties are included in this mixture. Each, 5c.; 50c. per doz.; per 100, \$3.50.

MICHELL'S GORGEOUS DAHLIAS

The past few years we have been experimenting quite a bit with Dahlias. We have tried out many of the new varieties, have retained some that showed special merit, and adding them to our collection of standard varieties, it brings our list quite down to date. We realize, of course, there are many more varieties that we do not list, but to offer too many would make selection not only cumbersome but confusing to the prospective buyer. Those desiring the best in Dahlias may safely rely on the list offered in this catalog.

VARIETIES OF RECENT INTRODUCTION AND THOSE OF SPECIAL MERIT

Australian (Cactus). Brilliant rich purple, suffused bright crimson. (Plants only.) 30c. each; doz., \$3.00.

Avalanche (Paeony). An enormous flower; standing well above the foliage; pure white; stiff, erect stems; one of the best in this class. (Plants only.) 50c. each; doz., \$5.00.

Candeur (Cactus). Beautiful pure white, resembling an incurved chrysanthemum; excellent for cutting. 30c. each; doz., \$3.00.

Easton (Decorative). Brilliant oriental red, remarkably free bloomer; good as a cut flower or for garden decoration. 30c. each; doz., \$3.00.

Eventide. Free flowering; almost pure white; showing tints of delicate pink on the edge of the petals, which adds to its beauty.

Freibeuter (Decorative). Unquestionably one of the best decorative Dahlias in existence, a free, continuous bloomer, dazzling scarlet. (Plants only.) 40c. each; doz., \$4.00.

Geisha (Paeony). It would be hard to overestimate the beauty of this remarkable oriental colored variety, with its wonderfully twisted flower petals and odd combination of color, gold and red. (Plants only.) 35c. each; doz., \$3.50.

Golden Gate (Cactus). A resplendent golden russet Cactus Dahlia of large size. It is a free grower and bloomer. (Plants only.) 35c. each; doz., \$3.50.

Golden Plover (Cactus). Of neat and precise form; incurved evenly and regularly; a sturdy grower, with long stems; golden yellow shading to bronze at the tips. (Plants only.) 50c. each; doz., \$5.00.

Golden Eagle (Cactus). Large incurved flower of a pleasing shade of golden yellow; suffused rose and fawn. 50c. each; doz., \$5.00.

Hortulanus Fiet (Decorative). Enormous flowers; often 8 inches across; the color is a delicate shrimp pink; petals tipped golden yellow. (Plants only.) 40c. each; doz., \$4.00.



Show Dahlia, Mrs. Roosevelt

Golden Wave (Cactus). Rich deep pure yellow; large and full flower; a robust grower. 40c. each; doz., \$4.00.

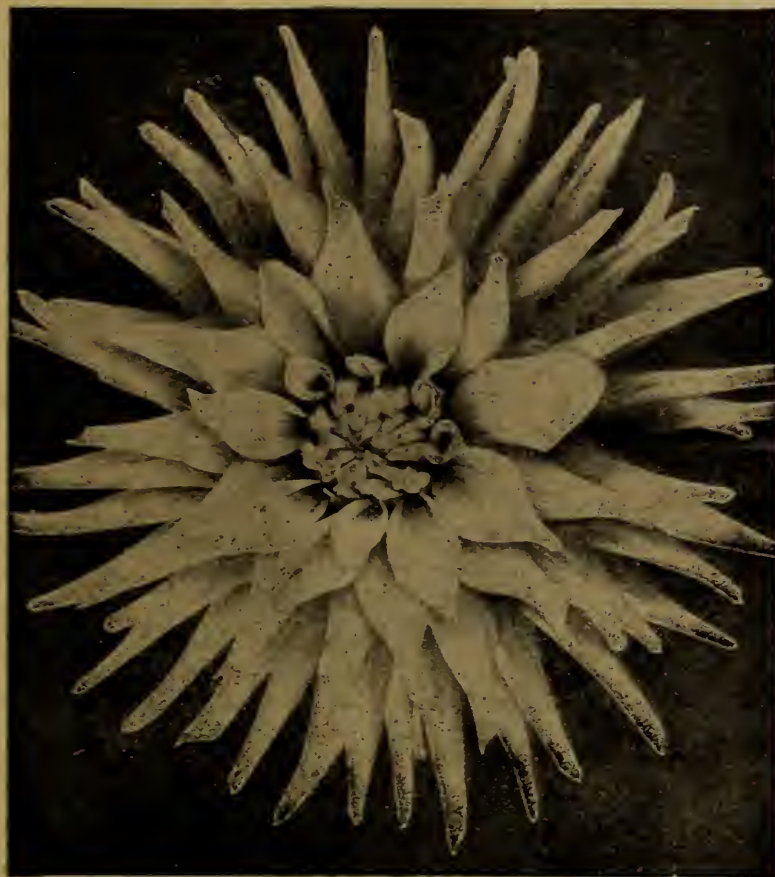
Great Britain (Decorative). Clear mauve, reminding one of soft tints seen in the orchids; the flowers are large and very handsome. (Plants only.) 35c. each; doz., \$3.50.

Henri Farman (Collarette). Cardinal red, edged creamy yellow with a cream yellow centre. 35c. each; doz., \$3.50.

Hortulanus Budde (Paeony). Free-flowering; beautiful rich orange red; one of the real good varieties. 35c. each; doz., \$3.50.

Note.—Dahlias, where offered in plant form, cannot be supplied in roots. Plants will be ready about May 1st. Generally after which time they may be set outdoors. The word following the name of the variety, such as "Cactus," indicates the type to which the sort belongs.

VARIETIES OF RECENT INTRODUCTION—(Continued)



Cactus Dahlia, "Walküre"

John Wanamaker (Paeony). One of the largest and most handsome of Dahlias, being an exquisite shade of rosy lake, popularly called Orchid pink. As the flower develops, the color softens somewhat. 50c. each; doz., \$5.00.

Kalif (Cactus). A colossal flower, often 8 to 9 inches across; the plant is of regular habit, about 4 feet high; the immense flowers are produced freely on long erect stems and are pure scarlet, and of true cactus form. (Plants only.) 50c. each; doz., \$5.00.

Loveliness (Paeony). A splendid variety of large size and perfect form; pale lilac shaded white. (Plants only.) 35c. each; doz., \$3.50.

Marathon (Cactus). Brilliant rich purple; very distinct color and of exquisite form. 30c. each; doz., \$3.00.

Miss Willmott (Cactus). A grand cut flower, and splendid for garden decoration. Reddish apricot, shading to golden yellow at the centre. 30c. each; doz., \$3.00.

Mlle. Marie Doucet (Cactus). One of the freest flowering varieties. Color a lively mauve-pink, shading to white at the centre. (Plants only.) 30c. each; doz., \$3.00.

Mrs. Furbush (Decorative). A fine dark, rich garnet, shaded maroon; a free continuous bloomer; flowers on long, erect stems. 35c. each; doz., \$3.50.

Mrs. Alfred Dyer (Cactus). Centre pale lemon yellow, deepening to a soft tint of rosy pink; petal tips almost white; of dwarf growth and a free bloomer. 50c. each; doz., \$5.00.

Nibelungenhort (Cactus). Immense flowers, often 7 to 8 inches across, with curled and twisted petals of old rose, with a suffusion of golden apricot. Free-flowering, long stemmed variety; fine for cutting. (Plants only.) 50c. each; doz., \$5.00.

Onward (Cactus). Its incurved and twisted, narrow rosy-pink petals form an almost globular flower. 35c. each; doz., \$3.50.

Painted Lady (Paeony). An exquisite shade of pale rose; large flowering; a decided acquisition. 40c. each; doz., \$4.00.

Paul Bonyon (Decorative). A beautiful, salmon pink, with a brilliant golden sheen. The flowers are large, of good form and freely produced on long, wiry stems. 35c. each; doz., \$3.50.

Princess Juliana. A wonderful white decorative Dahlia; an early, free and constant bloomer; flowers of medium size, good for decorative work. Award of merit, London, 1914. 35c. each; doz., \$3.50.

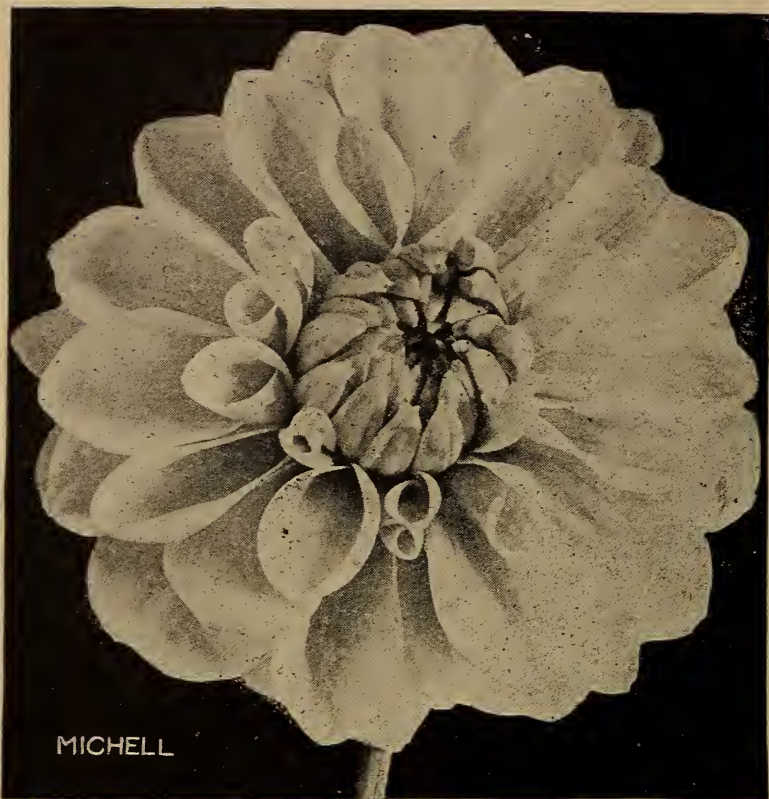
Rheinischer Frohsinn (Cactus). Large flowers of exquisite form; long, incurved petals, white at the base, becoming suffused at half their length with bright carmine-rose. Admired by all who have seen it. (Plants only.) 50c. each; doz., \$5.00.

Richard Box (Cactus). A great exhibition flower, clear light yellow, incurved petals. 35c. each; doz., \$3.50.

Schneekönigin. A magnificent, pure white, of large size, ideal form, and splendid quality; the flowers are held well above the foliage. (Plants only.) 35c. each; doz., \$3.50.

Sherlock (Cactus). One of the freest flowering Dahlias in our collection. Orange-scarlet with apricot suffusion; compact, shapely plants, producing flowers on good stems for cutting. 35c. each; doz., \$3.50.

Walküre (Cactus). A strong, vigorous, free-flowering Dahlia, often 6 and 7 inches across; color a pleasing sulphur yellow, deepening to golden yellow at the centre. (Plants only.) 50c. each; doz., \$5.00.

*Decorative Dahlia, Madame van den Dael***SCARLET AND RED SHADES**

Augusta Nonin. A large superb flower, clear scarlet; a beautiful form on long stems. 20c. each; doz., \$2.00.

Easton (New). For description, see page 120. 30c. each; doz., \$3.00.

Freibeuter (New). For description, see page 120. **Plants only.** 40c. each; doz., \$4.00.

Gayety. A variegated variety; a strawberry red, each petal having a broad band of white. 30c. each; doz., \$3.00.

Jack Rose. Rich crimson, of perfect form; large flowers on stiff, wiry stems. 15c. each; doz., \$1.50.

Lyndhurst. Bright scarlet; a great bloomer; fine for cutting. **Plants only.** 15c. each; doz., \$1.50.

Mrs. C. L. Seybold. Crimson carmine, with a white tip; a beautiful flower. 15c. each; doz., \$1.50.

Souvenir de Gustave Doazan. The largest decorative Dahlia, measuring often 8 inches across; a beautiful shade of red. **Plants only.** 20c. each; doz., \$2.00.

Wm. Agnew. Glistening scarlet crimson; very large; of perfect form; splendid for cutting. 15c. each; doz., \$1.50.

Ouray. Rich, deep, velvety maroon; of fine form. Very free-flowering. 25c. each; doz., \$2.50.

PINK SHADES

Delice. A beautiful true shade of pink; long flowers on long, rigid stems. 25c. each; doz., \$2.50.

Great Britain (New). For description, see page 120. **Plants only.** 35c. each; doz., \$3.50.

Hortulanus Fiet (New). For description, see page 120. **Plants only.** 40c. each; doz., \$4.00.

Madame van den Dael. Shell pink, shaded deep rose; of perfect form. 20c. each; doz., \$2.00.

PINK SHADES—(Continued)

Mrs. C. W. Basset. One of the most showy varieties, both for a blooming plant and as a cut flower. The flowers are large, of a delicate mauve pink, of exquisite form and habit. **Plants only.** 25c. each; doz., \$2.50.

Mrs. Furbush (New). See page 121. 35c. each; doz., \$3.50.

Mrs. J. Gardner Cassatt. One of the finest ever introduced. Deep rose pink; splendid cut flower on long stiff stems. **Plants only.** 25c. each; doz., \$2.50.

Mrs. Roosevelt. Undoubtedly one of the most popular Dahlias to-day, having an international reputation. The form of the flower is very distinct, having large fluted petals flatly arranged and is of immense size. The color, an exquisite daybreak pink, is not approached by any other sort. The gigantic flowers are borne on stout, erect stems, far above the foliage. **Plants only.** 30c. each; doz., \$3.00.

Paul Bonyon (New). For description, see page 121. 35c. each; doz., \$3.50.

WHITE SHADES

Eventide. A very free-flowering, almost pure white Dahlia, its touches of delicate blush on the edge of the petals adding to its beauty. 30c. each; doz., \$3.00.

Kaiserin Augusta Victoria. The earliest and one of the best white decorative Dahlias; large, flat, open flowers of purest white, on stout, erect stems. 20c. each; doz., \$2.00.

Le Grand Manitou. Very large flower, white ground, striped, spotted and blotched reddish violet. 35c. each; doz., \$3.50.

Mad. A. Lumiere. Pure white, tipped violet red; a very distinct combination of colors. 25c. each; doz., \$2.50.

Mont Blanc. Cream white; large perfect flowers on stiff stems. 30c. each; doz., \$3.00.

Perle de Lyon. An exceptional free bloomer; clear white, with clefted petals. 25c. each; doz., \$2.50.

Princess Juliana (New). For description, see page 121. 35c. each; doz., \$3.50.

YELLOW SHADES

Clifford W. Bruton. Rich golden yellow; perfectly formed flowers, that are produced in profusion.

Gloire Lyonnaise. Rich golden yellow, suffused carmine at the petal tips. 25c. each; doz., \$2.50.

Miss Minnie McCullough. Soft yellow, overlaid bronze. 15c. each; doz., \$1.50.

Yellow Colosse. Pure canary yellow; free-flowering; of compact growth. 20c. each; doz., \$2.00.

Notice.—It sometimes occurs, as the season advances, that we are not able to deliver field roots, in which cases we send out strong, thrifty plants at the same price. These give equally good results, blooming the first season.

RED SHADES

Crimson Globe. A beautiful crimson of perfect form; remarkably early and free, with long stems; splendid for cutting. 15c. each; doz., \$1.50; \$10.00 per 100.

Cuban Giant. Immense globular flowers, of bright maroon; free and early. **Plants only.** 15c. each; doz., \$1.50; \$10.00 per 100.

Frank Smith. Rich dark purple maroon, tipped pinkish white. 20c. each; doz., \$2.00.

Red Hussar. A sterling variety; exceptionally fine shaped flowers of pure cardinal red. Free-flowering and splendid for cutting. 15c. each; doz., \$1.50; \$10.00 per 100.

Triomphe de Solferino. Soft crimson; extra free-flowering; compact, bushy plants. 25c. each; doz., \$2.50.

PINK SHADES

A. D. Livoni. Beautiful clear pink; free-flowering; fine form. 15c. each; doz., \$1.50; \$10.00 per 100.

Caleb Powers. Delicate pink, with white centre; perfect flowers. 35c. each; doz., \$3.50.

Dorothy Peacock. Delicate rose pink, with a full white centre; a profuse bloomer, with long, erect stems; splendid for cutting; one of the best of the newer sorts. 30c. each; doz., \$3.00.

John Thorpe. Soft rich pink; fine cut flower. 15c. each doz., \$1.50; \$10.00 per 100.

Miss Alice King. A lovely ivory white, shaded and edged soft rose. Invaluable as a cut flower or for exhibition purposes. 15c. each; doz., \$1.50; \$10.00 per 100.

Mrs. Gladstone. A delicate shade of shell pink, shading to blush at the tips. **Plants only.** 20c. each; doz., \$2.00.



Show or Double Dahlia, Dorothy Peacock



Show Dahlia, "Miss Minnie Vosburg"

WHITE SHADES

Dreer's White. A splendid large flowering variety of the most beautiful form. Pure white flowers borne on long stems in great profusion. 25c. each; doz., \$2.50.

John Walker. Very large flowers of purest white; an excellent sort for either cutting or garden decorations. 15c. each; doz., \$1.50; \$10.00 per 100.

Miss Minnie Vosburg. The best white yet introduced, and one of the best Show Dahlias. The flowers, which form perfect white balls, with a good full centre, are borne on stiff, erect stems. The flower is absolutely perfect in formation and outline. A profuse bloomer; excellent for cutting. 25c. each; doz., \$2.50.

YELLOW SHADES

Chas. Lanier. Enormous flowers of perfect outline and formation. One of the freest-flowering sorts. Color, amber shaded buff. 20c. each; doz., \$2.00.

Lucy Fawcett. Sulphur yellow, striped carmine rose. A most attractive combination. Fine cut-flower variety. 20c. each; doz., \$2.00.

Miss Browning. One of the most showy varieties, both as blooming plants and as a cut flower. The flowers are canary-yellow, tipped white and of perfect form. 20c. each; doz., \$2.00.

Princess Victoria. A very strong plant, producing splendid flowers on a long stem. Rich canary-yellow; a free bloomer. 15c. each; doz., \$1.50; \$10.00 per 100.

Yellow Livoni. A beautiful quilled Dahlia of medium size soft lemon-yellow; excellent for cutting. 20c. each; doz., \$2.00.

MICHELL'S GIANT FLOWERING CACTUS DAHLIAS



Cactus Dahlia, Rene Cayeux

RED AND SCARLET SHADES

- Aristed Gurtler.** Orange, suffused scarlet, darker towards centre; very narrow petals. 25c. each; doz., \$2.50.
- Australian.** Brilliant rich purple, suffused bright crimson. **Plants only.** 30c. each; doz., \$3.00.
- Comte de Lambert.** Rich carmine red. 25c. each; doz., \$2.50.
- Fernand Olivet.** Deep maroon, shaded scarlet. 25c. each; doz., \$2.50.
- Floradora.** Distinct blood red; very free bloomer. 15c. each; doz., \$1.50; \$10.00 per 100.
- General Buller.** Rich velvety crimson, tipped white; fine flower. 15c. each; doz., \$1.50; \$10.00 per 100.
- General French.** A beautiful orange terra-cotta; splendidly formed flower. 25c. each; doz., \$2.50.
- H. W. Sillem.** Brilliant vermilion scarlet; long flower petals. **Plants only.** 15c. each; doz., \$1.50; \$10.00 per 100.
- Kalif.** For description, see page 121. **Plants only.** 50c. each; doz., \$5.00.
- Marathon.** For description, see page 121. 30c. each; doz., \$3.00.
- Monsieur Quentin Bouchard.** Bright scarlet, with cleft petals; the blooms are very large and borne on long, stiff stems. 20c. each; doz., \$2.00.
- Mrs. Henry R. Wirth.** Rich brilliant scarlet. 35c. each; doz., \$3.50.
- Mrs. H. J. Jones.** Brilliant scarlet, edged blush white; an exquisite flower of beautiful form. 20c. each; doz., \$2.00.
- Phoenix.** Rich carmine red. 25c. each; doz., \$2.50.
- Rene Cayeux.** Rich glowing reds, produced with wonderful freedom. Can safely be called one of the best of the Cactus varieties. 25c. each; doz., \$2.50.
- Rheingau.** Rich brilliant scarlet; giant-flowering. 25c. each; doz., \$2.50.
- Rheinischer Frohsinn.** See page 121. **Plants only.** 50c. each; doz., \$5.00.
- Sherlock.** See page 121. 35c. each; doz., \$3.50.

PINK AND ROSE SHADES

- Countess of Lonsdale.** Profuse bloomer; rich salmon pink. 15c. each; doz., \$1.50; \$10.00 per 100.
- Delicatissima.** A beautiful delicate pink; perfectly formed flowers. 25c. each; doz., \$2.50.
- H. L. Brousson.** First-class flower, with very narrow florets of great length, white in the centre, changing to deep, rich rose. 35c. each; doz., \$3.50.
- Kriemhilde.** Delicate soft pink, with a distinct white centre. 15c. each; doz., \$1.50; \$10.00 per 100.
- Mad. Henry Cayeux.** Bright rose, shaded white at the tips; fine cut flower; one of the best of the Cactus variety. 40c. each; doz., \$4.00.
- Mauve Queen.** Long incurved petals. Clear mauve, shaded lighter toward centre. 25c. each; doz., \$2.50.
- Mme. Marie Doucet.** See page 121. **Plants only.** 30c. each; doz., \$3.00.
- Nibelungenhort.** See page 121. **Plants only.** 50c. each; doz., \$5.00.
- Onward.** See page 121. 35c. each; doz., \$3.50.
- Phenome.** Clear straw, suffused rose. 30c. each; doz., \$3.00.
- Pink Pearl.** Delicate pink, suffused white in the centre. **Plants only.** 15c. each; doz., \$1.50; \$10.00 per 100.
- Rev. T. W. Jamison.** Giant flowering, with long incurved petals; bright pink with a salmon base. 25c. each; doz., \$2.50.
- Wodan.** Gigantic flowers of beautiful salmon rose shaded gold. 25c. each; doz., \$2.50.

WHITE SHADES

- Candeur.** For description, see page 120. 30c. each; doz., \$3.00.
- Flora.** Pure white flowers, produced on long stems. Valuable for cutting. **Plants only.** 30c. each; doz., \$3.00.
- Lawine.** White, shaded blush. 20c. each; doz., \$2.00.
- Rheinkoenig.** Giant flowering; snow-white; a wonderful bloomer. 25c. each; doz., \$2.50.
- Schneekoenigin.** For description, see page 121. **Plants only.** 35c. each; doz., \$3.50.
- Thais.** Pure white, suffused delicate mauve. A grand variety, that will please the most critical Dahlia grower. 50c. each; doz., \$5.00.

YELLOW SHADES

- Cockatoo.** Lemon-yellow, shaded rose with white centre. 15c. each; doz., \$1.50; \$10.00 per 100.
- Country Girl.** Golden yellow, suffused salmon pink; a grand cut flower variety. 20c. each; doz., \$2.00.
- Dragon d'Or.** Light canary-yellow; broad petals. 15c. each; doz., \$1.50; \$10.00 per 100.
- Glory of Wilts.** Bright golden yellow; very large. 35c. each; doz., \$3.50.
- Goldland.** Primrose yellow. 25c. each; doz., \$2.50.
- Golden Eagle.** For description, see page 120. 50c. each; doz., \$5.00.
- Golden Gate.** See page 120. **Plants only.** 35c. each; doz., \$3.50.
- Golden Plover.** For description, see page 120. **Plants only.** 50c. each; doz., \$5.00.
- Golden Wave.** For description, see page 120. 40c. each; doz., \$4.00.
- Lord Minto.** Sulphur yellow, shaded salmon rose; splendid form. 25c. each; doz., \$2.50.
- Miss Willmott.** For description, see page 121. 30c. each; doz., \$3.00.
- Mrs. Alfred Dyer.** For description, see page 121. 50c. each; doz., \$5.00.
- Richard Box.** For description, see page 121. 35c. each; doz., \$3.50.
- Success.** Light canary yellow, with fine needlelike petals. 20c. each; doz., \$2.00.
- Tricolor.** Golden yellow ground, while the petals are marked scarlet. 35c. each; doz., \$3.50.
- Walkure.** For description, see page 121. **Plants only.** 50c. each; doz., \$5.00.



Paeony-Flowered Dahlia, "Loveliness"

PAEONY-FLOWERED DAHLIAS

Avalanche. An enormous flower, standing well above the foliage; the best in this class; pure white; stiff, erect stems. **Plants only.** 50c. each; doz., \$5.00.

Geisha (Paeony). A rich combination of scarlet and gold, the centre being yellow, which becomes suffused with and deepens to scarlet at the centre of the petals, shading off lighter at the edge. **Plants only.** 40c. each; doz., \$4.00.

Germania. Bright glowing crimson, very attractive and showy; long stout stems. 15c. each; doz., \$1.50.

Glory of Groenekan. A handsome shade of rich orange yellow. 20c. each; doz., \$2.00.

Hortulanus Budde. Very free-flowering; a beautiful rich orange red; one of the best of recent introductions. 35c. each; doz., \$3.50.

John Wanamaker (Paeony). One of the largest and most handsome of Dahlias, being an exquisite shade of rosy lake, popularly called Orchid pink. As the flower develops, the color softens somewhat. It is really one of the finest. 50c. each; doz., \$5.00.

Loveliness. A splendid flower of perfect form and large size; color, pale lilac, shaded white. **Plants only.** 35c. each; doz., \$3.50.

Painted Lady. Large flowers of an exquisite shade of pale rose; a decided acquisition. 40c. each; doz., \$4.00.

Queen Emma. Soft rose pink; very delicate. 20c. each; doz., \$2.00.

Queen Wilhelmine. One of the finest pure white Paeony Dahlias, producing flowers on exceedingly long stems, well above the foliage. 20c. each; doz., \$2.00.

Rev. H. J. Kitchen. Delicate mauve pink, blotched and marked yellow; a large flower; very free. 30c. each; doz., \$3.00.

POMPON DAHLIAS

These are a miniature Double or Show Type. For dinner table decoration, design work or bedding, they are unusually attractive.

Catherine. Primrose yellow; a beautiful flower. 15c. each; doz., \$1.50; \$10.00 per 100.

Darkness. Deep velvety maroon, almost black. **Plants only.** 15c. each; doz., \$1.50; \$10.00 per 100.

Dr. Hirschbrunn. Deep rosy lilac; very free-flowering; of fine form. 15c. each; doz., \$1.50; \$10.00 per 100.

Gretchen Heine. Ground color rose, tinted white, each petal tipped crimson carmine. 25c. each; doz., \$2.50.

Indian Chief. A fine, free-flowering crimson. 15c. each; doz., \$1.50; \$10.00 per 100.

Klein Domitea. Salmon buff, very profuse bloomer. 15c. each; doz., \$1.50; \$10.00 per 100.

Kupfer. Very distinct, coppery bronze. 15c. each; doz., \$1.50; \$10.00 per 100.

Nerissa. A lovely shade of pink; splendid form; the best pink pompon. 25c. each; doz., \$2.50.

Snowclad. A fine, pure white, of excellent habit. 15c. each; doz., \$1.50; \$10.00 per 100.

Ware's Mars. A deep red, of splendid shape. 15c. each; doz., \$1.50; \$10.00 per 100.

NOTICE

It sometimes occurs as the season advances that we are not able to deliver field roots, in which cases we send out strong thrifty plants at the same price. These give equally good results, blooming the same season. Dahlia Plants ready in May.



Pompon Dahlia, Gretchen Heine

26 MICHELL'S SUPERB DAHLIAS

COLLARETTE DAHLIAS

French specialists have given us many improved forms of this type, some with very large flowers and delightful color combinations, from which we have selected the varieties here offered. These unique flowers were exhibited quite extensively; meeting with great approval and we predict a great success for same. The flowers are single, with a row of petals around the centre, known as the "Collar," which is usually different in color from the rest of the flower.

Comte de Nodler. Deep purple garnet, with yellow centre; collar rays yellow, shaded white at tips. 25c. each; doz., \$2.50.

Richness Melzi d'Eril. Orange scarlet, suffused bright vermilion. Collar petals mottled blush white, violet and red. 25c. each; doz., \$2.50.

Henry Farman. Cardinal red, edged creamy yellow; creamy yellow collar. 35c. each; doz., \$3.50.

Maurice Rivoire. An attractive flower with petals of blood red, with deeper stripe down the centre. Pure white, fringed collar. 15c. each; doz., \$1.50; \$10.00 per 100.

Ime. Viger. Rich garnet; collar petals white, suffused carmine. 25c. each; doz., \$2.50.

Souvenir de Chabanne. Golden yellow, suffused brilliant scarlet. Yellow collar, tipped white. 20c. each; doz., \$2.00.

UNNAMED DAHLIAS

	Each	Doz.	100
Double White	\$0.12	\$1.25	\$9.00
" Red .....	.12	1.25	9.00
" Yellow .....	.12	1.25	9.00
" Mixed, all colors .....	.10	1.00	7.50
" Pink .....	.12	1.25	9.00
Single Mixed, all colors .....	.10	1.00	7.00



Collarette Dahlia, "Comte de Nodler"



A Type of Single Dahlias

GIANT SINGLE AND CENTURY DAHLIAS

These types have quickly become favorites. Owing to their immense size and beautiful colors and shades, they are invaluable for cutting. The flowers often measure 6 inches in diameter and are borne on long stems.

Apple Blossom. Most delicate, lovely, apple blossom pink, tipped carmine red. 15c. each; doz., \$1.50; \$10.00 per 100.

Fringed Century. Bright rosy crimson, with fringed petals. 25c. each; doz., \$2.50.

Gaillardia. Golden yellow, with a broad band or disc of red around the yellow centre. Most striking and effective. Named from its remarkable resemblance to Gaillardia Grandiflora. A distinct and popular type. 15c. each; doz., \$1.50; \$10.00 per 100.

Jack. Very brilliant, fiery scarlet, with base of petals overlaid with golden yellow. A great bloomer, with broad recurved petals. 20c. each; doz., \$2.00.

Rose Pink Century. Of a beautiful rose pink color. The plant is an exceptionally free bloomer, producing long stems. 20c. each; doz., \$2.00.

Spanish Century. Another giant century; color, pure yellow, penciled rich, glowing red. Roots. 40c. each; doz., \$4.00.

Twentieth Century. Color intense rosy crimson, with white tips and white disc around the yellow centre. As the season advances the dark-colored zone becomes lighter. 15c. each; doz., \$1.50; \$10.00 per 100.

White Century. Pure white, with large, heavy petals. 25c. each; doz., \$2.50.

GLADIOLUS, CANNAS AND DAHLIAS

A comprehensive treatise on these important popular flowers, giving up-to-date cultural instructions. Free for the asking.

MICHELL'S HARDY GARDEN LILIES

What garden could be called complete without a fair display of these stately flowers. Their graceful habits, their ability to adapt themselves to special locations and the variety of them to have flowers almost the entire summer makes them very valuable. Their culture is simple yet a few rules must be strictly observed to grow them successfully.

All lilies should be planted from 6 to 8 inches deep, the Japanese varieties even 12 inches deep, the bulbs themselves should be completely enveloped in sand; no manure should come in contact with the bulb, but may be placed 4 to 6 inches underneath, all loose petaled bulbs should be planted on their side instead of upright.

These are sometimes grown in pots for indoor blooming, in which case they are handled much like the Bermuda Easter Lily; we recommend, however, they should be grown exclusively outdoor.

Wild gardening, a feature becoming popular of late, gives lilies the foremost place.

In winter all lilies should have a protection of leaves or manure.

JAPANESE LILIES

Auratum (*Golden Banded Lily from Japan*). A variety planted most extensively; flowers of enormous size, measuring frequently 8 to 12 inches across; pure white, spotted crimson; each petal is marked in the centre with a band of yellow. The height varies according to location; it prefers a moist, cool well-drained soil. Flowers in August, delightfully fragrant; a single stem produces on an average from 8 to 15 flowers.

		Each	Doz.	100
Large Bulbs,	8 to 9 inch circ.....	\$0.15	\$1.50	\$10.00
Mammoth Bulbs,	9 " 11 " ".....	.20	2.00	15.00
Monster Bulbs,	11 " 13 " ".....	.30	3.25	20.00

Melpomene. Rich deep pink, spotted dark red; free blooming and robust in growth; very fragrant; height, 3½ feet; flowers in August.

		Each	Doz.	100
Large Bulbs,	8 to 9 inch circ.....	\$0.15	\$1.50	\$10.00
Mammoth Bulbs,	9 " 11 " ".....	.25	2.50	17.50

Speciosum Album. The best flowering pure white hardy garden lily, of easy culture. The slender graceful stems and foliage are set off to wonderful advantage by the glistening pure white blooms clustered from 6 to 10 around the stem; the petals recurve and show the prominent red pistil in the centre; height 4 feet; blooms August and Sept.

		Each	Doz.	100
Large Bulbs,	8 to 9 inch circ.....	\$0.20	\$2.00	\$15.00
Mammoth Bulbs,	9 " 11 " ".....	.30	3.00	17.50

Speciosum Magnificum. An enormous flower rich deep pink, spotted crimson; the form of flower is recurved like "Speciosum Album"; this is one of the grandest of the Jap. varieties; height, 3 feet; flowers in August.

		Each	Doz.	100
Large Bulbs,	8 to 9 inch circ.....	\$0.15	\$1.50	\$10.00
Mammoth Bulbs,	9 " 11 " ".....	.25	2.50	15.00
Monster Bulbs,	11 " 13 " ".....	.30	3.00	20.00

Speciosum Rubrum or Roseum. Delicate pink, almost white, spotted red; one of the old garden favorites; very hardy; height, 3 feet; flowers in August and Sept.

		Each	Doz.	100
Large Bulbs,	8 to 9 inch circ.....	\$0.15	\$1.50	\$10.00
Mammoth Bulbs,	9 " 11 " ".....	.20	2.00	15.00
Monster Bulbs,	11 " 13 " ".....	.30	3.00	20.00

OLD FASHIONED TIGER LILIES

The improved Tiger Lily is one of the hardiest in cultivation, which succeeds and increases in all climates; splendid for naturalizing in groups and around shrubbery. The orange blossoms are heavily spotted maroon and borne in clusters of from 4 to 10 blooms on a straight heavy stalk, often 5 feet in height. Deep purple seed pods form on the axils of the leaves; blooms in July.

Tigrinum Splendens Simplex. Mammoth bulbs grown in Japan, 10c. each; doz., \$1.00; \$7.50 per 100.

Tigrinum Flore Pleno. A double form of the above, retaining its flower longer, otherwise is as above. Mammoth bulbs grown in Japan, 15c. each; doz., \$1.50; \$10.00 per 100.

CANNAS, DAHLIAS AND GLADIOLUS

is the title of a booklet we have issued, covering the culture of the above popular subjects; mailed free or included with orders if asked for.



Lilium Auratum

AMERICAN OR NATIVE LILIES

Brownii. Pure white inside; brown and purple outside Each \$0.50 Doz. \$5.00 100

Canadense (*Canadian Bellflower Lily*). Bright yellow bell-shaped flowers; spotted black inside; June and July; 2 feet..... .10 1.00 \$7.50

Canadense Rubrum. Same as above, crimson with black spots20 1.75 12.50

Elegans, Painted Chief. Bright red flowering early June; 2 feet; large open flowers stand upright in clusters from 3 to 5 on a stout stem15 1.50 11.00

Elegans, Leonard Joerg. Rich apricot pink. .20 1.75 12.50

Hansonii. Often grows from 3 to 5 feet high, flowers reddish orange 8 to 12 in a cluster; petals thick and durable..... .50 5.00 40.00

Henryi (*New and Rare*). Tall grower, often 7 feet; producing flowers of a distinct orange yellow in great profusion..... .60 6.00

Superbum (*Turk's Cap Lily*). One of the best lilies for all purposes; will succeed everywhere; according to location, will grow from 3 to 6 feet high and produce from 5 to 45 nodding brilliant orange red flowers on a single stalk during July15 1.50 10.00

Tenuifolium (*Coral Lily*). Brilliant scarlet, bell-shaped flowers, of rather small size, hang downward on a small but gracefully formed tree-like plant; splendid for edges of borders, rockeries or cutting; foliage very slender; flowers in May..... .15 1.50 10.00

Umbellatum. A showy, massive lily, flowering in June; the broad, open flowers appear upward from 5 to 8 on a stout stalk, 3 feet high; color, a glowing orange scarlet; most effective when planted in clumps..... .15 1.50 10.00

Michell's Superb Named Gladiolus NEW VARIETIES

The most magnificent set ever offered and worthy of a place in your collection.



Gladiolus "Winsome"

Charmer. Large, broad-petalled flowers of soft mauve pink, blending off lighter in the throat, which is penciled carmine. 20c. each; doz., \$2.00; \$15.00 per 100.

Cynosure. Immense flowers of exquisite deep rose-pink, marked on the lower petals with a throat blotch of crimson; tall, strong, well filled spikes. 20c. each; doz., \$2.00; \$15.00 per 100.

Fascinator. Splendid large flowers of salmon pink, tinted with flames of carmine; throat blush with carmine-lake pencilings; long, well-filled spikes. 20c. each; doz., \$2.00; \$15.00 per 100.

Fire King. Long graceful spikes showing half a dozen immense blooms open at the same time. Color, intense scarlet. More brilliant than any other scarlet variety. A perfectly grand variety. 30c. each; doz., \$3.00; \$20.00 per 100.

Leslie. Light delicate pink with rich crimson maroon blotches, pointed white. 20c. each; doz., \$2.00; \$15.00 per 100.

Melrose. White flaked pink, bright crimson centre. Very large and fine. 20c. each; doz., \$1.75; \$12.00 per 100.

Negerfürst. Very dark blood black, with velvety black spots; inflamed with white and flaked lilac-rose. A very odd, beautiful color, long graceful spike and robust free habit. Best of the dark varieties. 40c. each; doz., \$4.00; \$30.00 per 100.

Richred. Tall and handsome spikes with large flowers of splendid form, and a rich deep blood red color. 20c. each; doz., \$2.00; \$15.00 per 100.

Ruby King. Fine compact spike, tall and graceful, flowers of great substance and of an intense dark ruby red, glowing with peculiar richness; very fine indeed. 20c. each; doz., \$2.00; \$15.00 per 100.

Silvretta. Creamy white with carmine blotches on lower petals; spike strong and tall. Late flowering. 35c. each; doz., \$3.50; \$25.00 per 100.

Winsome. Great round flowers of exquisite blush, shot and shaded with carmine-pink. A conspicuous throat blotch of crimson-lake ornaments each of the lower petals; sturdy, upright spike. 20c. each; doz., \$2.00; \$15.00 per 100.

Note—Six bulbs of a variety at dozen rate; 25 at 100 rate. If Gladiolus are wanted by Parcel Post, add 10c. per doz. for postage charges.

SPECIAL OFFER.—One Bulb each of the 11 magnificent varieties, listed on this page, for \$2.50.



Gladiolus "Fascinator"

A black and white photograph of a plant specimen, likely a flower or seedling, mounted on a light-colored background. The plant has several dark, elongated, pointed structures (possibly leaves or bracts) and a cluster of small, light-colored, rounded structures (possibly flowers or seeds) at the top. A long, thin, dark stem or root extends downwards from the cluster.

What a wonderful stride this flower has made during recent years. Its popularity to-day is exceeded by few other flowers and it has by no means reached its limit. And there are good reasons for this popularity. Failure with this flower has never been known. They will grow in any open position and bloom well. They are not only showy in the garden but when cut with the first flower open will last for 10 days in the house. The newer colorings defy the choicest orchids. Plant bulbs 4 inches deep, 6 inches apart and stake when 2 feet high. Flowers appear from early July until late in the fall.

This strain which is offered in mixtures of distinct shades originated with the celebrated *Gladliolus* Specialist, Mr. Groff, who after careful reselection considers what is offered as the Gold Medal Strain, the very cream of all his collection. In order to distinguish between the Gold and Silver Trophy Strain, we wish to state that the selection has been made along these lines, larger flowers, rarer colors, ideal stems and types of extended flowering period. These are equal to the best named varieties, but simply have never been christened.

Section 3. This embraces all the shades of blue, heliotrope, mauve, lilac and similar colors. (No smoky or slate blues.) Each, 20c.; \$1.75 per doz.; \$12.00 per 100 by express collect.

Before the Gold Medal strain (mentioned above) was known, the mixtures under the title of Silver Trophy, were the choicest assortment of the same specialist. It constitutes to-day a very superior selection of what is generally known as mixture, and offers the opportunity to do one's planting in shades of the same character.

Section 3. Lilac, heliotrope, violet and all the shades of light and dark blue compose this selection. The colors are most exquisite. 8c. each; per doz., 75c.; \$4.50 per 100.

Giant Flowering Strain (see illustration). Every bulb for this mixture has been selected with utmost care for coloring, size of flower and purity, no other mixture can boast of such careful selection. It is principally grown in our own nursery. 5c. each; per doz., 50c.; \$3.00 per 100; \$25.00 per 1000.

Each	Doz.	100	1000
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UNNAMED GLADIOLUS (In Separate Colors)

SPECIAL COLLECTION OF NAMED GLADIOLUS

Collection No. 1.	12	bulbs,	1	each of	12	varieties,	our	selection..	\$0.75
Collection No. 2.	25	"	1	"	25	"	"	"	... 2.00
Collection No. 3.	50	"	2	"	25	"	"	"	... 3.75
Collection No. 4.	100	"	4	"	25	"	"	"	... 7.25

A comprehensive treatise on these important popular flowers, giving up-to-date cultural instructions. Free for the asking.



Gladiolus "America"

America. One of the best Gladiolus in existence. The color is a beautiful flesh pink, tinged with lavender. The flowers are of the largest size, the petals are round, thick and strong, and will last a long time after being cut. For groups or in vases there is no other flower which can excel it in effectiveness. 5c. each; doz., 40c.; \$2.25 per 100.

Attraction. Immense flowers of a most pleasing deep rose, with white throat, which makes it a most beautiful and attractive variety. 6c. each; doz., 50c.; \$3.00 per 100.

Augusta. A real gem for the garden, producing graceful, slender stems, which are dressed entirely with beautiful flowers of pure white, slightly tinged and striped pink, which open all at one time. For massing in front of shrubbery or tall perennials this variety is excellent, also for cut flower purposes. 6c. each; doz., 50c.; \$2.50 per 100.

Baron Hulot. Large flowers, well arranged on long spikes. Color is a deep indigo blue, slightly marked white at the base of the throat; very attractive, when arranged with yellow flowers in a vase. 5c. each; doz., 40c.; \$2.75 per 100.

Brenchleyensis. An old standard sort and one of the best for bedding or planting in front of shrubbery, where one shade of rich scarlet is desired. The flowers, which appear all at one time, are of a vermilion scarlet color, and are also splendid for cutting. 3c. each; doz., 25c.; \$1.75 per 100; per 1000, \$15.00.

Brilliant. Beautiful orange red, with carmine and white throat; a gigantic flower on a tall, stiff stem. It is one of the very best of the scarlet sorts and should be in every collection. 7c. each; doz., 75c.; \$4.50 per 100.

Canary Bird. Without doubt a fine canary yellow, a shade that is pleasing and attractive. The massive spikes are closely set with flowers. 10c. each; doz., \$1.00; \$7.50 per 100.

Cardinal. A perfect spike and flower of the brightest, and most intense cardinal red. Very rich and showy, and considered one of the finest of the red varieties. 15c. each; doz., \$1.50; \$11.00 per 100.

Contrast. One of the most showy of all Gladiolus. The intense dazzling scarlet flowers present a striking contrast with a combination of a pure white band around each petal and a conspicuous marking of white in the throat; very effective and pleasing at sight. 40c. each; doz., \$4.00.

Eugene Scribe. A standard variety of great beauty. Large open flowers of a tender rose shade, blazed carmine. 8c. each; doz., 75c.; \$5.00 per 100.

Europe. Gigantic flowers of purest white without a trace of any other color. Spike averages 25 blossoms. It has received highest awards at every exhibition where shown. 15c. each; per doz., \$1.25; \$8.00 per 100.

George Paul. One of the largest-flowering varieties, produced in great numbers on graceful slender stems; color, rich crimson. Splendid for cutting and for massing in front of shrubbery. 10c. each; doz., 85c.; \$6.00 per 100.

Glory (Kunderdi). A beautiful distinct variety with ruffled petals. Produces massive spikes with large creamy pink flowers, penciled crimson in the throat. 10c. each; doz., \$1.00; \$7.00 per 100.

Halley. Very large, well expanded flowers of a lovely salmon pink; the lower segments are blotched yellow with carmine markings; robust grower. 4c. each; doz., 40c.; \$2.50 per 100.

Hollandia. A distinct shade of beautiful salmon yellow, producing long spikes covered with large individual flowers. It is one of the best for outdoor culture. 6c. each; doz., 60c.; \$3.50 per 100.

I. S. Hendrickson. A beautiful irregular mottling of white and rose; in some the pink and in others the white predominates. 10c. each; doz., 80c.; \$6.00 per 100.

Jean Diquelafoy. One of the earliest to flower. The lovely creamy white blooms are decorated with a conspicuous blotch of red in the throat. 12c. each; doz., \$1.10; \$8.00 per 100.

Klondyke. A most hardy, vigorous and productive sort. The flowers, which are of medium size and of great substance, are clear primrose yellow with a crimson blotch in the throat. Of dwarf habit, this variety is unexcelled for massing or in front of shrubbery, etc. 5c. each; doz., 50c.; \$3.00 per 100.

Lemon Drop. Strong vigorous plant, blooming early; flowers round, well opened, of a light lemon yellow with a brighter yellow band. 12c. each; doz., \$1.00; \$6.00 per 100.

May.. One of the best of the older varieties; a strong and vigorous grower. Color is a fine white delicately flecked crimson; a slender spike, extensively used for forcing. 5c. each; doz., 50c.; \$2.75 per 100.

Mrs. H. B. Fullerton. A grand new variety; flowers are very large and well expanded, spike straight and strong; color ruby red with white blotches. 40c. each; doz., \$4.00.

Mrs. Francis King. A variety of recent introduction; which excited great comment of admiration, both for size of flower and beauty. A most beautiful flame pink. Immense flowers on a spike growing 4 feet high, with from 18 to 20 flowers, 6 to 8 being open at one time. Many of the bulbs produce two and three flower-spikes; a gem among Gladiolus. 5c. each; doz., 40c.; \$2.50 per 100.

ORDER YOUR GLADIOLI EARLY

Our Gladioli have such a splendid reputation, we are frequently sold out of some varieties early. We, therefore, recommend the placing of orders as soon as our Catalog is received.

MICHELL'S NAMED SUPERB GLADIOLUS 131

Mrs. Frank Pendleton, Jr. One of the most exquisitely colored and formed Gladiolus in our entire list. In addition, the size of the bloom is not exceeded by any other. The color is a delicately flushed salmon pink, the color extending to the reverse side of the petal as well as in the centre. The blooms are wide open and are arranged individually on the very slender but wiry stems, which fall gracefully when arranged in vases. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals. The most sensational gladioli novelty. 20c. each; doz., \$2.00; \$15.00 per 100.

Niagara. An entire new color in Gladiolus, to describe it intelligently one must imagine a shade of rich cream combined with canary yellow. The form and habit of this variety is exactly like America, except that the spike grows taller. The individual flowers are very large and borne in pairs opposite each other. 12c. each; doz., \$1.25; \$8.00 per 100.

Nezinscott. Very brilliant scarlet with a deep red throat; a striking variety. 10c. each; doz., 85c.; \$5.50 per 100.

Panama. On account of its habit, color and form, it is destined to become the most popular Gladiolus in the near future. For form and habit, it has all the desirable features of the variety "America," but the wonderful color can best be described by comparing it with that of the popular rose, "Mrs. Jno. Laing," an incomparable rose pink. The spikes are tall and very robust and many flowers appear at one time. 15c. each; doz., \$1.50; \$9.00 per 100.

Peace. A grand pure white flower with just a slight marking of a lilac feather on the lower petal. The plant is very robust, 5 feet high and shows the enormous flowers well placed all along the stem. 'Tis of wonderful vitality, being a splendid keeper when cut. "Peace" flowers mid-season and late, when the best of other Gladiolus are gone. 15c. each; doz., \$1.50; \$10.00 per 100.

Pink Augusta. A grand new Gladiolus, especially fine for bedding or cutting, it has all the fine characteristics of the "White Augusta," which is vigorous, has straight stems and is free blooming, and all flowers on a stem open at one time. The color is a pleasing pink and thereby fills a niche in the class of popular Gladiolus. 6c. each; doz., 60c.; \$2.75 per 100.

Pink Beauty. One of the earliest varieties. The spike is slender and produces a large number of medium sized flowers, open at one time on the spike. The color is deep rose, with a deep crimson blotch in the throat. 6c. each; doz., 50c.; \$2.50 per 100.

Pink Perfection. Finest and purest rose pink; extra fine spikes, with 8 to 10 flowers open at one time. The flowers are well expanded and of the most perfect form. Received an award of merit and a first-class certificate in London. 10c. each; doz., \$1.00; \$6.00 per 100.

Primulinus. One of the finest species from South Africa. Very thin, wiry slender stems, decked with clear canary yellow flowers of medium size. The upper petals being hardest, the attached two lower petals being expanded, gives it a most striking appearance. 20c. each; doz., \$2.00; \$12.50 per 100.

Primulus Major Hybridus. From the original specie our grower has produced by crossing and recrossing an entire new form of Gladiolus. From the purest and lightest of yellow, it varies to the deepest orange, and from the softest shade of salmon pink down to rich crimson; also a few white. Dainty blotches in the throat add to their beauty. 6c. each; doz., 50c.; \$3.50 per 100.

Princeps. Amaryllis-shaped, gigantic flowers of a dazzling bright scarlet, marked with white on the lower petals. Two to three flowers open at one time. 10c. each; doz., \$1.00; \$5.00 per 100.

Rose Spray. A giant Childsii type, pure white with pink sprays or flakes. A most vigorous grower, large and strong, very early to bloom. The petals are large, round, thick and strong, and of lasting qualities. 10c. each; doz., 80c.; \$5.00 per 100.



Gladiolus, Rose Spray (See bottom of opposite column)

Rosella (Kathryn). A perfect orchid in color and texture; delicate cattleya pink, with white throat and veinings. Flowers are very large and many are open at one time. The delicate beauty of this variety, either in bud or bloom, is hardly equalled by any other variety. 12c. each; doz., \$1.10; \$7.00 per doz.

Scarsdale. Long, graceful spikes of wide open flowers of a very pleasing lavender shade; a most unique and distinct color. 10c. each; doz., \$1.00; \$7.00 per 100.

Scribe. Soft rose, shaded carmine; large open flowers of great beauty. 10c. each; doz., \$1.00; \$6.00 per 100.

Shakespeare. A very dainty white; slightly suffused rose. Well opened flowers on long spikes. 10c. each; doz., \$1.00; \$6.00 per 100.

Sulphur King. One of the finest yellow Gladiolus. It produces, on a very long spike, flowers of the clearest sulphur yellow. The foliage is exceptionally broad and of a beautiful deep green color, adding immensely to the beauty of the plant. A very strong and vigorous grower. Splendid for cutting. 20c. each; doz., \$2.00; \$15.00 per 100.

Victory. Considered by many the best yellow Gladiolus. The flowers are of medium size, well arranged on a strong straight spike, and many open at one time. Color, delicate sulphur yellow, lower petals shaded deeper and a bright maroon blotch on throat. 6c. each; doz., 60c.; 100, \$4.00.

Wild Rose. A most vigorous grower, large and strong, very early in bloom, producing flowers of the largest size. The color is a beautiful pink, resembling the shade of the single wild rose of the roadside. A good grower, with straight, well formed spikes. The flowers are very large and wide open. 12c. each; doz., \$1.25; \$8.00 per 100.

MICHELL'S SUMMER BEDDING PLANTS

READY AFTER MAY 1st
EXCEPT WHERE NOTED

Many of these are grown by ourselves, others for us by specialists and are thrifty specimens which will invariably give fine results. As readily seen from the title they are not hardy, being for the one season's display only with the exceptions of a few. *Plants of this kind cannot well be mailed as we send out strong specimens, which travel best by express.*

ABUTILONS (Bell Flower)

Splendid plants to be used as a close setting or around a bed of cannas or other tall growing plants.

Boule de Neige. Pure white.

Golden Fleece. Very large flower; pure yellow.

Savitzii. Green and white foliage, with white flower.

Vesuvius. Rich red flower, with deep red veins.

Extra strong plants, 3-inch pots, 15c. each; doz., \$1.25; \$9.00 per 100.

ACALYPHA

Macafeana. Plants growing 2 feet high, with beautiful red and bronze foliage, showing up well against a green background of cannas, caladiums or ricinus. Extra strong plants, 3-in. pots, 15c. each; doz., \$1.25; \$8.00 per 100.

ACHYRANTHES

Excellent for edging beds of various kinds; make a fine show against a green or yellow background; grow about 12 inches high; very compact.

Acuminata. Purplish bronzy foliage.

Brilliantissima. Crimson foliage; very bright.

Extra strong plants, 3-inch pots, 15c. each; doz., \$1.25; \$8.00 per 100.

AGERATUM (Floss Flower)

These are one of the freest of flowering annuals and can be adapted to many purposes. As an edging in a garden border few plants surpass it. Flower heads very large. Plants 10 inches high; ideal for massive bedding or edging.

Blue Perfection and White Perfection, 3-inch pot-plants, 15c. each; doz., \$1.25; \$8.00 per 100.



Ageratum Blue Perfection

ALTERNANTHERA

Used principally for carpet bedding effects and edgings; fine for working out in designs; of very dwarf growth, being about 4 inches high.

Aurea Nana. Green and yellow; mottled foliage.

Brilliantissima. Red, with a slight trace of green.

3-inch pot-plants, 12c. each; doz., \$1.25; \$7.00 per 100.

ALYSSUM

Little Gem. Pure white flowers, dwarf compact plant, desirable for edging, flowering all season; 6 inches high, 3-inch pot-plants, 12c. each; \$1.00 doz.; 100, \$6.00.

ANTIRRHINUM (Snapdragon)

A very effective plant for massive bedding and border planting, also much used in Italian Gardens. If flowers are cut off after blooming they will continue until frost. In separate colors as follows:

Giant White, Pink, Yellow and Scarlet. Each color separate.

Extra strong, 4-inch pot-plants, 15c. each; doz., \$1.50; \$10.00 per 100.

BEGONIAS (See cut, page 133)

Erfordi. Of the same habit as Vernon, but having bright pink flowers which almost hide the foliage during the whole summer. 3-inch pot-plants, 15c. each; doz., \$1.25; \$9.00 per 100.

Gracilis Luminosa. A splendid edging variety with bronzy red foliage and brilliant coppery scarlet flowers, very free blooming, of same habit as Vernon. 3-inch pot-plants, 20c. each; \$1.50 doz.; per 100, \$10.00.

Tuberous Rooted. Few people realize the gorgeous effects produced by these plants. It is much more satisfactory to buy them started, ready to set out in May, than to plant out the dormant bulbs. They are usually in flower, when ready to ship, and a continuous mass of bloom until frost. Especially are they fine for planting in shaded locations. Strong extra large 4-inch pot-plants, **Single Mixed**, 15c. each; doz., \$1.50; \$10.00 per 100. **Double Mixed**, 20c. each; doz., \$2.00; \$15.00 per 100.

Vernon. Bright red flowers, compact dwarf plant, one of the best and most effective bedding plants either for edging or massive bedding. 3-inch pot-plants, 15c. each; \$1.25 per doz.; 100, \$9.00.



Antirrhinum

MICHELL'S SUPERB ASTERS

Giant Flowering Branching Strain

We grow a large stock of these in separate colors, **Pink, Scarlet, White and Blue.** Extra strong 3-inch pot-plants, 8c. each; doz., 75c.; \$5.50 per 100.



Mitchell's Giant Flowering Branching Asters



Tuberous Rooted Begonia Flower (See page 132 for Price of Plants)

CALADIUM (Fancy Leaved) (Ready in June)

For producing tropical effects, planted in shaded places; beautifully marked foliage; named varieties. Plants, 50c. each; doz., \$5.00.

CALADIUM (Elephant Ears)

These are fine for tropical effects; look especially well when used as an edging around hardy grasses, or if planted in beds surrounded with Pennisetum Grass. 4-inch pot-plants, 20c. each; doz., \$2.00; \$15.00 per 100.

CALENDULA (Pot Marigold)

These somewhat resemble a double daisy, are fine for cutting, flowering all summer.

Orange King. Very deep orange.

Sulphurea. Light sulphur yellow.

Strong 3-inch pot-plants, 12c. each; doz., \$1.25; \$8.00 per 100.

CANNAS

On pages 117 to 119 will be found a complete list of up-to-date varieties. The standard sorts of our selection in your choice of color. Extra strong plants, 15c. each; doz., \$1.50; \$10.00 per 100.

CENTAUREA (Dusty Miller)

For edging flower beds and borders.

Gymnocarpa. Broad silvery foliage.

Candidissima. Narrow pointed cut leaved foliage, silvery gray. Strong 3-inch pot-plants, 12c. each; doz., \$1.25; \$8.00 per 100.

CENTAUREA (Corn Flower)

Cyanus Double Blue. The favorite boutonniere of the business man, rich bright blue; get a dozen plants for your garden. 3-inch pot-plants, 12c. each; doz., \$1.25; 100, \$7.00.

COLEUS

The popular beefsteak plant so commonly used for edging canna and geranium beds. Making a fine show from early spring till frost.

Verschaffelti. Dark crimson foliage.

Golden Bedder. Rich canary yellow foliage.

Queen Victoria. Red, with a yellow edge.

Fire Brand. Brilliant reddish brown.

3-inch pot-plants, 10c. each; \$1.00 per doz.; per 100, \$6.00.

COSMOS

Michell's Giant Flowering Strain, producing enormous long stemmed flowers late in the autumn.

Pink, White, Red, each color separate. 3-inch pot-plants, 8c. each; doz., 75c.; \$5.00 per 100.

DAISY, ENGLISH GIANT FLOWERING

(Ready in April)

These are especially desirable for early spring bedding before it is possible to set out most other plants. Intermingled with Pansies and Forget-Me-Nots (the latter being set out at the same time); they form an attractive combination. **Pink, White, Red,** each separate, 10c. each; \$1.00 per doz.; per 100, \$7.00.

DRACAENA (Fountain Plant)

Indivisa. Attractive, used as a centrepiece for a round bed, urn or vase and in cemetery work; light green foliage. Strong plants, 50c. each; \$5.00 doz. Large plants, \$1.00 each; \$10.00 per doz.



Michell's Giant Flowering Cosmos (See Top of Column for Prices)

FUCHSIA (Lady's Ear Drop)

The pretty bell flowers, both single and double, appear abundantly. The plants should be set in a semi-shaded location.

Elegans. White and rose.

Carmen. Soft violet rose.

Drude. Double rose.

Diamant. Double white.

Jos. Rojain. Double sky blue, striped red.

Patrie. Double pure white.

Marinka. Beautiful rich red.

Speciosa. Orange scarlet, white sepals.

Any of the above Fuchsias, 3-inch pots, 15c. each; doz., \$1.25; 100, \$9.00.

MICHELL'S SUMMER BEDDING PLANTS

NOTE—Our stock of Bedding Plants are large and thrifty specimens and we prefer not to ship by parcel post, they usually are delayed in transit and arrive in bad order despite the care we use in packing. Orders shipped by express arrive not only quicker and in better order but permit us to give the very best quality for size, etc.

GERANIUMS

Our stock of these except *Mad. Salleroi* is in 4-inch pots, very bushy, well shaped, carefully grown. *Mad. Salleroi* variety is in 3-inch pots.

Alphonse Ricard. Bright scarlet, double, large flower trusses.

Ardens. Vermilion scarlet, single flowers.

Beaute Poitevine. Salmon pink, very double; one of the finest of the double kinds.

Helen Michell. Bright rich scarlet, producing gigantic flower trusses; to date the very best of its color. 4-in pot plants ready in May, 25c. each; doz., \$2.50; \$17.50 per 100.

La Favorite. Double, pure white.

Mme. Salleroi. Variegated leaves, used extensively for edging and for this purpose flowers should be removed, as they are too small for effect.

Mrs. E. G. Hill. Soft salmon pink, single flowers.

Rose Geranium. Grown for its scented foliage, ideal for cutting to mix with other flowers.

S. A. Nutt. Rich crimson, double.

Snowdrop. Pure white, single flowers.

Price (except where noted) of any of the above Geraniums, extra fine stock, 4-inch pots, 15c. each; doz., \$1.50; \$12.00 per 100.

Note.—Be sure and try at least a few Geraniums "*Helen Michell*," it is the best and freest bloomer in its class.

HELIOTROPE (See Cut Below)

This is a fine bedding plant, being a mass of flowers all summer; the fragrance cannot be approached by any other annual plant. As a cut flower it fills an important place.

Centefleur. Large trusses of rich deep violet blue.

La Duse. Enormous deep blue flower heads.

4-inch pot-plants, 15c. each; doz., \$1.50; 100, \$10.00.

HYDRANGEA (For Bedding, etc., See Page 136)

IVY (German or Parlor)

Fine for window boxes, hanging baskets, etc.; green foliage; 3-inch pots. 12c. each; doz., \$1.00; \$7.00 per 100.



Geranium, Helen Michell

LANTANA

Excellent bedding plants, thriving best in the full sun; the shades of orange and yellow, so effective in bedding, are found in these plants only. 3-inch pot plants.

Crusalis. Pure yellow.

Eole. Yellow shading to bright rose.

Radiation. Brilliant red with orange yellow centre.

12c. each; doz., \$1.25; \$8.00 per 100.

LEMON VERBENA (*Aloysia Citriodora*)

Pointed green lemon scented foliage, fine for mixing among cut flowers; as a winter house plant these are also very satisfactory. 3-inch pots. 12c. each; doz., \$1.25; \$8.00 per 100.

LOBELIA

Blue flowering plant, for edging and hanging baskets; when ordering, state purpose for which they are desired.

Compacta. For bedding, edging, etc. 3 in. pot plants. 12c. each; doz., \$1.00; \$6.00 per 100.

Speciosa. Trailing variety for baskets, urns, etc. **MARIGOLD**

These are favorites in all old-fashioned gardens, in bloom from early summer until frost.

Eldorado. Orange yellow.

Lemon Queen. Lemon yellow. Strong 3-inch pot-plants, 12c. each; doz., \$1.00; \$7.00 per 100.

MIGNONETTE

Sweet scented; fine for cutting or bedding. Extra strong 4 in. pot plants, 15c. each; \$1.50 doz.; per 100, \$10.00.

MYOSOTIS (*Forget-Me-Not*)

Ready after April 10th.

Stock usually exhausted May 15th.

Alpestris Victoria. Dwarf blue.

Palustris Semperflorens. Tall blue.

Strong plants of the above, 10c. each; doz., \$1.00; 100, \$7.00.



Heliotrope La Duse, Showing its Gigantic Flower Heads. (See Price Above)

NOTE—Plants cannot be shipped C. O. D.

MICHELL'S SUMMER BEDDING PLANTS 135



Michell's Strain of Giant Exhibition Pansies are hard to equal elsewhere.

SALVIA (Scarlet Sage)

No show of flowers can equal that produced by Scarlet Sage, it makes a blaze of color when massed or planted in beds that can be recognized at a great distance.

Bonfire. The best dwarf bedding variety. Strong 4-inch pot-plants, 15c. each; doz., \$1.50; \$10.00 per 100.

TEN WEEKS STOCKS (Gilliflower)

Sweet-scented flowers, which are fine for cutting, or as a bed or border plant they are splendid.

Double Pink, White, Blue and Red. In separate colors. 4-inch pot-plants, 15c. each; doz., \$1.50; \$10.00 per 100.

TRADESCANTIA

Zebrina. An old-fashioned hanging basket and window box plant, with silvery gray and red foliage. 3-inch pot-plants, 12c. each; doz., \$1.25; \$7.50 per 100.



Michell's Strain of Giant Flowering Single Petunias

VERBENAS

One of the freest flowering of summer annuals; a bed of Verbenas of any color make a beautiful show.

White, Pink, Blue, Scarlet, each color separate. Strong 3-inch pot-plants, 10c. each; doz., \$1.00; \$6.00 per 100.

VINCA

Rosea. This is the flowering type used for bedding or vases; a bed or border planted with these is a beautiful sight; they are not used as extensively as they should be; for either full sun or in partial shade they are well adapted. **Pink, White, Pink with White Eye,** each color separate. 4-inch pot-plants, 15c. each; doz., \$1.50; \$10.00 per 100.

Major Variegata. A trailing plant used for hanging baskets and window boxes; green foliage mottled white. Extra strong 4-inch pot-plants, 25c. each; doz., \$2.50; 100, \$18.00.

ZINNIAS

Michell's Giant Robusta Strain in mixed colors. 3-inch pot-plants, 12c. each; doz., \$1.25; \$8.00 per 100.

NOTE ABOUT PLANT QUALITY

Attention is called to our facilities for supplying bedding plants in any quantities, also to the fact that our plants will be found larger and more thrifty than those usually sent out.

Ten Weeks Stocks

MUSA ENSETE (Abyssinian Banana)

Excellent as centrepieces for large beds or individual specimens on the lawn; light green wavy foliage of enormous size. The plants in the autumn should be tubbed or potted, and placed in a warm cellar for winter storage. In May they can be set out again, when they will break out into foliage, increasing each year in size and beauty. 5 in. pot plants, 50c. 7 in. pot plants, \$1.25 each.

NASTURTIUMS

These are a mass of bloom all summer, and can be used for planting large beds or borders. Dwarf varieties in mixture. 4 in. pot plants. 15c. each; doz., \$1.50; \$10.00 per 100.

PANSIES

Michell's Giant Exhibition Strain. It has often been remarked by customers that nowhere else can our Pansies be equalled for size of bloom and rich colors. Fine large plants in bud and bloom in mixed colors only, ready after April 1st, \$1.25 per doz.; 25 for \$2.25; 100, \$9.00. Stock usually exhausted after May 15th.

PETUNIAS

Of the annual flowers, this is probably the most universally used; it can be put to a variety of uses, for bedding, baskets, window boxes or urns; they flower continuously.

Giant Single Strain. In mixed colors. 3-inch pot-plants, 12c. each; doz., \$1.00; \$6.00 per 100.

Double Petunias in named sorts. 3-inch pot-plants, 15c. each; doz., \$1.50; \$12.00 per 100.

PHLOX DRUMMONDI

These are a splendid bedding or border plant.

Dwarf. Red, White, Pink each separate. 3-inch pot-plants, 12c. each; doz., \$1.00; \$6.00 per 100.

PYRETHRUM

For edging flower beds and borders; very attractive.

Aureum. Fine light yellow foliage. 3-inch pot-plants, 12c. each; doz., \$1.25; \$8.00 per 100.

RICINUS (Castor Oil Plant)

These make stately plants for lawn effects, or for screening undesirable views; it is claimed they keep moles away.

Borboniensis. Green foliage; grows 15 feet.

Gibsoni. Deep red leaves; grows 15 feet.

Zanzibarensis. Green and red foliage; grows 15 feet.

4-inch pot-plants, 15c. each; doz., \$1.50; \$10.00 per 100.



136 MICHELL'S HYDRANGEAS HORTENSIS (Hardy)

This class of Hydrangeas is the one which is seen planted so extensively at the North Atlantic seashore and inland resorts. It seems to do especially well in these localities. It has been the general opinion that the plant is not hardy, but in many places it is not afforded even the slightest protection, although we recommend that care be taken, especially the first few years after planting, to protect them over winter with a covering of manure or other suitable litter, as this will protect the flower buds, which are often injured in severe winters, although the plants otherwise do not suffer. If winter protection is used, same should not be removed until all danger of frost is over, otherwise the tender shoots are nipped in the cold nights of early spring, and few flowers are the result. These varieties of Hydrangea often change their colors; for instance, pink varieties will sometimes turn out blue. This, however, is infrequent, and when the type is fixed it usually remains so. If, however, it is desired to change pink Hydrangea blue and the latter pink, this can be usually accomplished by incorporating into the soil a few handfuls of soot or iron filings. If this is not obtainable, lump alum broken into small pieces and incorporated into the soil, about ¼ lb. to each plant, will usually produce the same results. This class of Hydrangeas is best planted around verandas for fine effects. They can also be set in tubs for wall, coping or lawn decoration. If used in the latter way the plants should be taken in the winter to a frost-proof cellar and occasionally given some water. We have added considerably to our list, and offer an up-to-date selection. **Special Note:** Hydrangeas in the summertime should be watered liberally every day when there is no rain. Application of Cow Manure, Sheep Manure or Bone Meal will greatly increase the flowering qualities.



A Specimen Plant like this put on the Lawn, or about the Veranda base, makes a beautiful show

NEW VARIETIES OF FRENCH ORIGIN

- Beaute Vendomoise.** Immense flower heads with large florets; white tinted pink.
- Eclairer.** The nearest approach to red in the hydrangea family; a real sterling novelty.
- Harmonie.** Very large trusses with a fast color of pink which does not fade readily.
- La France.** Very large flowers of a delicate rose pink shade; flower trusses are gigantic.
- La Perle.** A splendid white variety; one of the best in this color.
- Liberte.** An attractive shade of pale pink, with enormous flower heads.
- Louis Moulliere.** A pleasing shade of deep rose pink, with fringed florets.

Price of New French Hydrangea listed above in strong young plants, 35c. each; \$3.50 per doz; 1 each of the 7 varieties, \$2.25.

Hydrangea lovers will do well to add to their collection some of these choice new varieties; only then can they appreciate the remarkable improvement this plant has undergone.

FRENCH VARIETIES OF RECENT INTRODUCTION

- Avalanche.** Large head; pure white flowers. A real beauty when in full bloom.
- Botaniste Peltreau.** Fringed flowers of gigantic size, of a brilliant lavender-pink color.
- Bouquet Rose.** Very large flower heads of a uniform shape. When first opened the flower is a shade of amber, which later turns to a brighter pink.

FRENCH VARIETIES OF RECENT INTRODUCTION—Continued

- E. G. Hill.** Considered the best pink, producing enormous flower trusses. The color in this variety remains perfect for a long while.
- General de Vibraye.** One of the very best, with enormous flower heads of a bright rose color. It is quite early, flowering with Madam E. Moulliere, to which it is an excellent contrast in color.
- Madame Maurice Hamar.** Large trusses of a delicate flesh-pink shade.
- Monsieur G. Renault.** Very free flowering type, blooming somewhat earlier than the rest. The flower has a slight reflex of carmine, while the body of the bloom is rich pink. 5 in. pot plants.
- Mme. Emile Moulliere.** This is the best of the newer kinds, bearing gigantic trusses with immense florets, the latter being often 2 inches in diameter. Pure white, with rich carmine eye.
- Radiant.** Brilliant rose pink, much brighter and showier than others of the same color. Strong 4 in. pot plants.
- Souvenir de Mme. Chautard.** Of dwarf, compact habit, with brilliant rose-colored flower trusses.
- La Lorraine.** Gigantic flowers and trusses pale rose pink, changing to a rich pink.

Prices of French Hydrangeas (except where noted):

	Each	Doz.	100
2½ in. Pots	\$0.20	\$2.00	\$12.50
4 " " .....	.35	3.50	25.00
6 " " .....	.50	5.00	40.00
11 in. Tub specimens, including tub; each,	\$2.00.		
13 in. Tub specimens, including tub; each,	\$2.50.		

HYDRANGEA OTAKSA

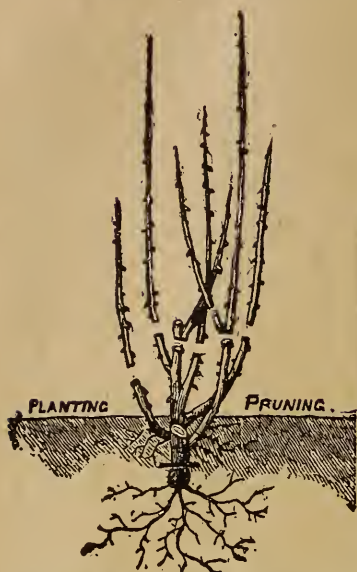
This is the old-fashioned favorite Japanese variety that usually flowers pink. It produces enormous flower trusses in great numbers. The plant increases in size and flowering ability each year and is the ideal variety for planting extensively at the seashore. 2½ in. Pot Plants, 20c. each; doz., \$2.00; \$12.50 per 100. 4 in. Pot Plants, 35c. each; doz., \$3.50; \$25.00 per 100. 6 in. Pot Plants, 50c. each; doz., \$5.00; \$40.00 per 100. Specimens in 11 in. tubs, each, \$1.50. Specimens in 13 in. tubs, each, \$3.00. Specimens in 15 in. tubs, each, \$3.50.

MICHELL'S POT-GROWN HARDY ROSES 137

A COMPLETE LIST "ARRANGED FOR THE BUSY MAN"

On this page is an alphabetical list of roses on Pages 138 to 147, inclusive, denoting the type, color and price and page on which full description may be found. T indicates Tea Variety, H. T. indicates Hybrid Tea Variety, H. P. indicates Hybrid Perpetual, Cl. indicates Climbing Variety, B. R. indicates Baby Rambler, M indicates Moss Variety, Br. indicates Briar.

	See Page	Type	Color	Each	Doz.		See Page	Type	Color	Each	Doz.
American Beauty	146	Cl.	Pink	\$0.60	\$6.00	Lady Ashtown (Climbing)	146	Cl.	Pink	\$0.60	\$6.00
American Pillar	146	Cl.	Pink	.50	5.00	Lady Ashtown	140	H. T.	Pink	.50	5.00
Annchen Müller	145	B. R.	Pink	.50	5.00	Lady Gay	147	Cl.	Pink	.50	5.00
Antoine Rivoire	140	H. T.	Pink	.50	5.00	Lady Hillingdon	143	H. T.	Yellow	.60	6.00
A. R. Goodwin	143	H. T.	Orange	.50	5.00	Lady Pirrie	139	H. T.	Salmon	.75	7.50
Aviator Bleriot	147	Cl.	Yellow	.60	6.00	La France	140	H. T.	Pink	.50	5.00
Baltimore Belle	147	Cl.	Blush	.50	5.00	La France (Standard)	145	H. T.	Rose	1.25	10.00
Baron de Bonstetten	144	H. P.	Red	.50	5.00	La France	146	Cl.	Rose	.60	6.00
Baroness Rothschild	144	H. P.	Pink	.50	5.00	Laurent Carle	142	H. T.	Red	.50	5.00
Belle Siebrecht	140	H. T.	Pink	.50	5.00	Lieutenant Chauré	142	H. T.	Red	.60	6.00
Bessie Brown	142	H. T.	White	.50	5.00	Louise Walter	145	B. R.	Pink	.50	5.00
Betty	140	H. T.	Pink	.50	5.00	Mme. Abel Chatenay	141	H. T.	Pink	.50	5.00
Blanc Double de Coubert	146	Rugosa	White	.50	5.00	Mme. Caroline Testout	141	H. T.	Rose	.50	5.00
Blanche Moreau	146	M.	White	.50	5.00	Mme. Chas. Lutaud	139	H. T.	Yellow	.75	7.50
British Queen	138-142	H. T.	White	.75	7.50	Mme. Edmond Rostand	139	H. T.	Pink	.75	7.50
Captain Christy	144	H. P.	Pink	.50	5.00	Mme. Edouard Herriot	139	H. T.	Pink	.85	8.50
Cecile Brunner	145-138	B. R.	Pink	.50	5.00	Mme. Gabriel Luizet	144	H. P.	Pink	.50	5.00
Chateau de Clos-Vougeot	142	H. T.	Red	.60	6.00	Mme. Jules Grolez	141	H. T.	Rose	.50	5.00
Christine Wright	146	Cl.	Pink	.50	5.00	Mme. Leon Pain	143	H. T.	Orange	.50	5.00
Clio	144	H. P.	Pink	.50	5.00	Mme. Melanie Soupert	143	H. T.	Yellow	.50	5.00
Clotilde Soupert	140	H. T.	Pink	.50	5.00	Mme. Norbert Levavasseur	145	B. R.	Crimson	.50	5.00
Coleen	138	H. T.	Pink	1.50		Mme. Philippi Rivoire	142	H. T.	White	.50	5.00
Conrad F. Meyer	146	Rugosa	Pink	.50	5.00	Mme. Ravary	143	H. T.	Yellow	.50	5.00
Crested Moss	146	M.	Pink	.50	5.00	Mme. Segond Weber	141	H. T.	Pink	.50	5.00
Crimson Globe	146	M.	Crimson	.50	5.00	Magna Charta	144	H. P.	Pink	.50	5.00
Crimson Rambler	147	Cl.	Crimson	.50	5.00	Maman Cochet, Pink	141	H. T.	Pink	.50	5.00
Dean Hole	140	H. T.	Pink	.50	5.00	Maman Cochet, White	142	H. T.	White	.50	5.00
Dorothy Page Roberts	143	H. T.	Yellow	.60	6.00	Margaret Dickson	144	H. P.	White	.50	5.00
Dorothy Perkins, Pink	147	Cl.	Pink	.50	5.00	Marquise de Sinety	143	H. T.	Yellow	.60	6.00
Dorothy Perkins, White	147	Cl.	White	.50	5.00	Mary, Countess of Ilchester	142	H. T.	Red	.60	6.00
Duchess of Wellington	143	H. T.	Yellow	.60	6.00	Miss Alice de Rothschild	143	H. T.	Yellow	.60	6.00
Duchess of Westminster	140	H. T.	Rose	.75	7.50	Molly Sharman Crawford	142	H. T.	White	.60	6.00
Duchess of Sutherland	141	H. T.	Pink	.60	6.00	Mrs. Aaron Ward	143	H. T.	Yellow	.60	6.00
Earl of Gosford	138-142	H. T.	Red	.75	7.50	Mrs. Aaron Ward (Tree)	145	H. T.	Yellow	1.25	10.00
Earl of Warwick	140	H. T.	Pink	.50	5.00	Mrs. A. R. Waddell	142	H. T.	Red	.50	5.00
Edgar M. Burnett	138	H. T.	Pink	1.50		Mrs. Chas. Russell	139-141	H. T.	Pink	.75	7.50
Edward Mawley	142	H. T.	Crimson	.60	6.00	Mrs. David Jardine	141	H. T.	Pink	.50	5.00
Erna Terschendorff	145	B. R.	Scarlet	.50	5.00	Mrs. F. W. Vanderbilt	139	H. T.	Orange	1.00	
Etoile de France	142	H. T.	Red	.60	6.00	Mrs. Geo. Shawyer	139	H. T.	Pink	.60	6.00
Etoile de Lyon	143	H. T.	Yellow	.50	5.00	Mrs. John Laing	144	H. P.	Pink	.50	5.00
Excelsa	147	Cl.	Crimson	.50	5.00	Mrs. R. G. Sharman Crawford	144	H. P.	Pink	.50	5.00
Farben Königin	140	H. T.	Pink	.50	5.00	Mrs. Sam Ross	143	H. T.	Yellow	.75	7.50
Fisher Holmes	144	H. P.	Red	.50	5.00	Mrs. W. Christie Miller	141	H. T.	Pink	.60	6.00
Florence Pemberton	142	H. T.	White	.50	5.00	Mrs. W. Cutbush	145	B. R.	Pink	.50	5.00
Flower of Fairfield	147	Cl.	Crimson	.50	5.00	Mrs. W. Easlea	142	H. T.	Red	.60	6.00
Franz Deegen	143	H. T.	Yellow	.50	5.00	My Maryland	141	H. T.	Pink	.50	5.00
Frau Karl Druschki (Tree)	145	H. P.	White	1.25	10.00	Old Gold	139-143	H. T.	Yellow	1.00	10.00
Frau Karl Druschki	144	H. P.	White	.50	5.00	Ophelia	139-141	H. T.	Pink	.75	7.50
Gardenia	144	Wich	Yellow	.40	4.00	Orleans	145	B. R.	Red	.50	5.00
General Jacqueminot	144	H. P.	Crimson	.50	5.00	Paul Neyron	144	H. P.	Deep Rose	.50	5.00
General McArthur	142	H. T.	Scarlet	.50	5.00	Paul Neyron (Standard)	145	H. P.	Deep Rose	1.25	10.00
Gen. Sup. Arnold Janssen	138	H. T.	Red	.60	6.00	Perle des Jardins	143	H. T.	Yellow	.50	5.00
Geo. Arends	144	H. P.	Pink	.50	5.00	Persian Yellow	144	Br.	Yellow	.50	5.00
Geo. C. Waud	142	H. T.	Red	.50	5.00	Phyllis	145	B. R.	Pink	.50	5.00
Geo. Dickson	138-142	H. T.	Red	.75	7.50	Prince Camille de Rohan	144	H. P.	Maroon	.50	5.00
Geo. Elger	145-139	B. R.	Yellow	.50	5.00	Prince de Bulgarie	141	H. T.	Pink	.60	6.00
Gloire de Dijon	146	Cl.	Salmon	.50	5.00	Richmond	142	H. T.	Red	.50	5.00
Gloire de Lyonnaise	144	H. P.	White	.50	5.00	Rosaleen	139	H. T.	Pink	.75	7.50
Gruss an Teplitz	142	H. T.	Red	.50	5.00	Rugosa Alba	146	Rugosa	White	.35	3.50
Gruss an Teplitz (Standard)	145	H. T.	Red	1.25	10.00	Rugosa Rubra	146	Rugosa	Carminé	.35	3.50
Harry Kirk	143	H. T.	Yellow	.60	6.00	Silver Moon	147	Cl.	White	.75	7.50
Hermosa	140	H. T.	Pink	.50	5.00	Soleil d'Or	144	Br.	Yellow	.50	5.00
Hiawatha	147	Cl.	Scarlet	.50	5.00	Souv. de Catherine Guillot	142	H. T.	Red	.50	5.00
Hugo Roller	141	H. T.	Lemon	.60	6.00	Souvenir de Gustave Prat	143	H. T.	Yellow	.60	6.00
J. B. Clark (Standard)	145	H. P.	Scarlet	1.25	10.00	Souvenir de la Malmaison	141	H. T.	Pink	.50	5.00
Jessie	145	B. R.	Red	.50	5.00	Souvenir de Pierre Notting	143	H. T.	Yellow	.50	5.00
Jonkheer J. L. Mock	140	H. T.	Pink	.50	5.00	Souvenir de Pres. Carnot	141	H. T.	Pink	.50	5.00
Jos. Hill	140	H. T.	Salmon	.50	5.00	Sunburst	143	H. T.	Yellow	.60	6.00
Juliet	144	Br.	Red	.50	5.00	Tausendschoen	147	Cl.	Pink	.50	5.00
Kaiserin Augusta Victoria	142	H. T.	White	.50	5.00	The Lyon	143	H. T.	Yellow	.50	5.00
Kaiserin Augusta Victoria	146	Cl.	White	.50	5.00	Ulrich Brunner	144	H. P.	Red	.50	5.00
Katherine Zeimet	145	B. R.	White	.50	5.00	Ulrich Brunner (Standard)	145	H. P.	Red	1.25	10.00
Killarney Pink	140	H. T.	Pink	.50	5.00	White Killarney	142	H. T.	White	.50	5.00
Killarney Pink (Standard)	145	H. T.	Pink	1.25	10.00	Willowmere	139-142	H. T.	Red	.75	7.50
Killarney Pink	146	Cl.	Pink	.50	5.00	Wm. Shean	141	H. T.	Pink	.50	5.00
Königin Carola	141	H. T.	Rose	.50	5.00	W. R. Smith	141	H. T.	Pink	.50	5.00
Lady Alice Stanley	141	H. T.	Rose	.75	7.50						



Note the proper way to plant and prune a rose bush. See the separation where the pruning is indicated.

Our stock in this line will be found of unusual vigor and value. The soil that we use for potting them is especially prepared and seems to contain peculiar elements which induce extra strong growth. The field-grown stock is potted late in the autumn after the wood is thoroughly ripened. They are plunged in the sand to prevent the roots from drying out at any time. Then they are placed in especially constructed glass houses with only sufficient heat to keep the ground from freezing and the plants from making any top growth. In this manner they winter over under natural conditions, until planted in your own garden. Roses handled after this fashion cannot help to give the greatest satisfaction to the purchaser.

SPECIAL DIRECTIONS FOR PLANTING AND CARING FOR ROSES

Open a good space in the soil and spread out roots; never cramp them into a small hole. Do not let manure come in contact with roots but place it underneath and a layer of soil on top. If the rose is a bush plant, set it so deep that only branches are visible above the ground and never the main stem, but too deep is as bad as too shallow; 2 to 4 inches of the lower branches may be under the surface, but no more. If the plant is a budded or grafted rose, be sure that the bud or graft is fully 3 inches below the surface. Prune in spring only, when life is just apparent and remove what might appear to be surplus wood. The strongest growth should be cut back to within six inches above the ground; the weaker growth to 4 inches. Observe the illustration opposite for pruning and depth of planting: All soil above the roots should be well pressed down. Feed your roses with "Ground Bone" and "Pulverized Sheep Manure." Mulch the ground during summer with cow manure or with Peat Moss. As winter approaches draw soil 6 to 8 inches high around the stem, this avoids winter killing especially the H. T. varieties, then cover with long manure or similar litter. On the reverse side of the Rose color plate or opposite Pages 137 will be found the "Rosariaus Calendar" which offers some helpful suggestions towards getting the most out of your rose garden.

VARIETIES OF RECENT INTRODUCTION AND SPECIAL MERIT

HT British Queen (McGredy). Experts, who have seen British Queen growing, agree that it is the finest white Rose in existence, surpassing in beauty and elegance of form all other white varieties. The freedom with which it blooms is remarkable. It is in flower from June until winter, and on well-cultivated plants the blooms are a model of perfection. The type of flower is between White Maman Cochet and Frau Karl Druschki, with Tea Rose form and refinement; frequently in the bud state it shows a slight flush; this disappears as the flower opens to the purest whiteness. It is a good grower and sweetly scented. Awarded a Gold Medal by the National Rose Society of England. 75c. each; per doz., \$7.50.

BR Cecil Brunner (Sweetheart). It is difficult to imagine a more dainty rose than this. It is perfectly double, rosy pink on a cream white ground. It has a true tea-rose scent. For rose bowls or miniature vases this makes beautiful cut flowers. 50c. each; doz., \$5.00.

HT Coleen (McGredy). A very full rose, with a high full centre color; a brilliant rose pink with deep rose crimson shadings on a creamy yellow ground; very fragrant, and a wonderfully free bloomer. Awarded a gold medal by the National Rose Society of England. \$1.50 each.

HT Earl of Gosford (McGredy). A splendid dark crimson rose, much after the style of Victor Hugo, an erect grower, bearing its flower on strong stiff stems; this is very fragrant and sure to become one of the most popular roses grown; color a rich deep crimson. Price, 75c. each; per doz., \$7.50.

HT Edgar M. Burnett (McGredy). This is one of the sweetest scented roses in cultivation. The habit of plant and shape of the flower is ideal. Flesh colored tinted rose with very large petals. Awarded a gold medal by the National Rose Society of England. \$1.50 each.

HT General Superior Arnold Janssen. Deep glowing carmine; large full flowers; a wonderfully free bloomer. A splendid outdoor rose, gives satisfaction everywhere. It has won many honors all over Europe, where it is considered one of the best roses of its color. 60c. each; doz., \$6.00.

Special Note.—In making a selection of roses, customers are entitled to dozen rates if their order calls for 6 roses in 6 or less varieties when all the varieties are listed at the same price; if the order calls for 25 in 25 or less varieties they are entitled to the 100 rate, provided the 25 or less varieties are listed at the same price.

George Dickson (Dickson & Son). A popular exhibition Rose. As near as we can describe it, the color is a velvety-black crimson, the back of the petals being heavily veined with deep pure crimson-maroon. The petals are of splendid shape and of magnificent substance; delightfully smooth, and built to make the form of flower perfection. Blooms of the highest exhibition standard, quite five inches across. It has wonderful lasting qualities, not only as to the retention of its color, but also in its shape and freshness. Awarded the Gold Medal of the National Rose Society of England, besides many other first awards at various shows in England. 75c. each; per doz., \$7.50.

BR Geo. Elger. A variety which compares favorably for exquisite daintiness with Cecile Brunner, to which it is a splendid companion. It is almost identical in habit and growth; the color is a coppery yellow; likewise has a distinct tea-rose odor. 50c. each; doz., \$5.00.



Hybrid Tea Rose, British Queen

Michell's Hardy Pot Grown Roses



KEY

- 1 Jonkheer J. L. Meek
- 2 Wm. Shean
- 3 Sunburst
- 4 Mrs. A. R. Waddell
- 5 Kaiserin Aug. Victoria
- 6 Gen'l MacArthur

Price of Roses on this Page
Strong 2-year-old Pot
Plants:

50 cents each, per dozen \$
\$40.00 per 100, or
1 each for \$2.50

A New Rose For The Garden

"ROSALEEN" (Hybrid Tea)



This variety originated a few years ago with Mr. Jno. Cook, the veteran Rose grower of Baltimore, who gave us "My Maryland" and some other famously popular roses. It has been tried under various conditions and was named the past summer, with instructions to disseminate it, in which we are co-operating. The variety is a most beautiful one, with long stems and a very free bloomer. It somewhat resembles Killarney Brilliant in shape, and is of a beautiful rich yet soft pink color. It is very full, showing no center even when almost in full bloom, it is of exquisite fragrance. The flowers keep remarkably well on the plant, and when cut; the foliage is a beautiful green, healthy and vigorous; the variety is a strong grower and will give splendid satisfaction. Strong 2-year old plants in 6 inch pots, 75c. each; doz., \$7.50; \$50.00 per 100.



New Rose "Rosaleen"

THE ROSARIAN'S CALENDAR

Or How to Get the Most out of your Rose Garden

The following Calendar of work in the Rose Garden is based upon experience in the neighborhood of Philadelphia, and of course is subject to the usual variation of dates according to the distance north or south of Philadelphia. The vagaries of the season must also be taken into consideration. The dates given are relative, not absolute.

APRIL 1st—Finish the pruning of hardy varieties already planted.

APRIL 15th—Plant new hardy roses, pruning new plants rather more severely than those of the same varieties already established.

APRIL 25th—Finish the pruning of tender varieties as far as possible without uncovering completely, which should be done about 10 days later. Give to all the plants in the beds and to any neighboring pear trees, grape vines or other plants subject to fungoid troubles, a good spraying of **BORDEAUX MIXTURE** as a preventive.

END OF APRIL—Roses are generally in leaf. Give the **FIRST** preventive spraying of **READEANA** and final touches to pruning.

MAY 20th—Buds are forming. **SECOND** spraying of **READEANA**.

MAY 25th—Earliest roses in bloom now, (Scotch followed by the Luteas). **APPLY LIQUID MANURE TO H. P's.**

JUNE 5th—Hybrid Perpetual Roses are now usually in quantity. **WATCH FOR ROSE BUGS**; spray with **READEANA**.

JUNE 10th—**THIRD** spraying with **READEANA** for Rose Bug treatment, is necessary. **APPLY LIQUID MANURE TO H. T's and TEA VARIETIES.**

JUNE 20th—Hybrid Teas and Teas are now at their height in quantity. **WATCH FOR ROSE BUGS** and for mildew; treat the latter with **FUNGINE**.

JULY 1st—**FOURTH AND LAST** spraying with **READEANA**.

JULY 10th—Rose Bugs usually disappear. Commence regular applications for black spot, (if a wet season); with **FUNGINE** every week, or **BORDEAUX MIXTURE** every twenty-four days, this treatment depending wholly on weather and appearance of foliage, and lasting, if necessary, to August 20th.

JULY 20th—Hybrid Teas and Teas bloom is now decreasing. Mulch beds by this date at the latest with cow manure or with peat moss.

AUGUST 30th—Hybrid Teas and Teas, second bloom begins, lasting until frost.

SEPTEMBER 15th—Second bloom of Hybrid Perpetuals begins, but usually it is not very plentiful.

OCTOBER 15th—Prepare new beds for the next spring planting. Remove from old beds any of the mulch that cannot be forked in.

NOVEMBER 15th—Commence placing long manure protection around roots, tenderest roses first.

NOVEMBER 30th—Or after a nip or two of decided frost, cover up tender roses for the winter with long straw or straw manure.

P.S. This calendar was compiled by a very successful outdoor rose culturist in New York. We have modified it to suit the climate adjacent to Philadelphia.

See also pages 137 to 147 for a Complete List of up-to-date Roses.

MICHELL'S SUPERB POT-GROWN ROSES 139

VARIETIES OF RECENT INTRODUCTION AND SPECIAL MERIT (Continued)

HT Lady Pirrie. Reddish salmon petals shaded apricot inside; a splendid variety, having good qualities. Awarded a gold medal by the National Rose Society of England. 75c. each; doz., \$7.50.

HT Mad. Edward Herriot. This rose was the sensation of 1914. It is the winner of the gold cup, offered by the London Daily Mail, for the best new rose exhibited at the International Exhibit, held in London in 1912. The variety is frequently referred to as the Daily Mail Rose. It is a cross between a seedling of Caroline Testout and a variety of the Pernitiana class. The buds are coral red with yellow shading at the stem. The flowers are semi-double, of medium size, of coral red color, shaded yellow and scarlet, terminating in salmon-red. It is one of the finest roses in cultivation. Price, 85c. each; doz., \$8.50.

HT Mme. Chas. Lutaud. Chrome yellow, slightly tinted scarlet on the outer petals, the flowers are large, full and of globular form, borne on long erect stems; an improvement on the popular variety, Marquise de Sinety. 75c. each; doz., \$7.50.

HT Mme. Edmond Rostand. Flesh shaded salmon and reddish orange long elegant bud, which develops into a large globular shaped flower. It might be termed a greatly improved Prince de Bulgarie. 75c. each; doz., \$7.50.

Mrs. Charles Russell. A strong growing, free flowering Rose. The foliage is heavy and leathery, is almost mildew proof. The bud is fully as large as American Beauty, but longer and pointed. The color is a bright rose pink, deeper toward the centre. 75c. each; per doz., \$7.50.

HT Mrs. F. W. Vanderbilt. A perfect rose of splendid shape and great fragrance, deep orange shaded apricot, quite distinct from any other rose in cultivation. \$1.00 each.

HT Mrs. George Shawyer. An introduction of 1913 and reputed to be the finest pink rose without a fault. It is wonderfully free flowering, even more so than Killarney. It is a strong, vigorous grower, with massive flowers, and a variety that should be included in every collection of roses. 60c. each; doz., \$6.00.



HT Old Gold. Coppery red, shaded apricot; a remarkable color; is not resembled by any other rose. The foliage is heavy and the growth vigorous; it blooms very freely. Price, \$1.00 each.

HT Ophelia. Very large flower of fine form and habit; salmon flesh shaded pink; the flowers are borne freely on stiff stems. Price, 75c. each; doz., \$7.50.

Rosaleen. This variety originated a few years ago with Mr. Jno. Cook, the veteran Rose grower of Baltimore, who gave us "My Maryland" and other famously popular roses. It has been tried under various conditions and was named the past summer, with instructions to disseminate it, in which we are co-operating. The variety is a most beautiful one, with long stems and a very free bloomer. It somewhat resembles Killarney Brilliant in shape, and is of a beautiful rich yet soft pink color. It is very full, showing no center even when almost in full bloom; it is of exquisite fragrance. The flowers keep remarkably well on the plant, and when cut, the foliage is a beautiful green, healthy and vigorous, the variety is a strong grower and will give splendid satisfaction. Strong 2-year old plants in 6 inch pots, 75c. each; doz., \$7.50.

HT Willowmere. The bud is carmine, which when open, develops into a large flower of rich pink, shaded yellow in the centre. Resembles the wonderful Lyon Rose. 75c. each; doz., \$7.50.

PLEASE NOTE REGARDING ROSE PRICES

In making a selection of roses, customers are entitled to dozen rates, if their order calls for 6 roses in 6 or less varieties, when all the varieties ordered are listed at the same price. If the order calls for 25 roses in 25 or less varieties, customers are entitled to the 100 rate, provided the 25 or less varieties ordered are listed at the same price.

Prices for quantities of roses unless otherwise noted.

50c. varieties are \$5.00 per dozen; per 100, \$40.00.

60c. varieties are \$6.00 per dozen; per 100, \$45.00.

75c. varieties are \$7.50 per dozen; per 100, \$55.00.

SPECIAL OFFER

One each of the newer roses offered on pages 138 and 139, making a splendid collection of 19 varieties for \$14.00.

The opposite illustration shows one of our rose storage houses, where the plants are put, after being potted, in the late autumn, to develop under ideal, natural conditions. There is just sufficient heat in them to temper the atmosphere in extremely cold weather and as a consequence roses wintered under these conditions are almost in the same dormant state as those grown naturally outdoors. As the weather becomes mild in the spring, the sashes are taken off the houses and the plants are allowed to develop until sold. We have eight houses like this, six being 120 feet long by 22 feet wide; and two being 100 feet long by 28 feet wide. They have a combined capacity of approximately 125,000 rose plants in 6-inch pots.



One of Our Rose Storage Houses, 120 feet long, 22 feet wide

MICHELL'S EVERBLOOMING HYBRID TEA ROSES

PINK VARIETIES

HT Antoine Rivoire. Exceptional bedding variety of excellent shape; flesh pink, shaded dark pink with a yellow cast at the base of the petals.

HT Betty. A strong vigorous grower, with deliciously fragrant flowers of a coppery rose color, shaded golden yellow, very free.

HT Belle Siebrecht. Brilliant pink, with very large flowers, the buds of which are long and tapering.

HT Clotilde Soupert. Properly classified, this rose does not belong under the heading of Hybrid Teas. It blooms from early until frost and even later. The centre is a soft flesh pink, while the outer petals are almost white. For cemetery planting it is the best rose.

HT Dean Hole. One of the best roses for midsummer, being loaded with flowers during July and August. The color is very attractive, being deep salmon pink with tremendous flowers.

HT Duchess of Westminster. One of the new varieties, introduced by Dickson & Sons. The large perfectly formed flowers with a delicate pointed cup are richly scented. It is a strong growing, free flowering variety of clear rose, pink shade. 75c. each; doz., \$7.50.

HT Earl of Warwick. Soft salmon-pink with a trace of vermillion in the centre.

HT Farben Königin. Brilliant pink; flower of an enormous size, making an elegant show.

(Bourbon T) **Hermosa.** Its compact-growing bush is a mass of bright pink flowers from June till frost. An excellent rose for cemetery plantings.

HT Jos. Hill. Splendid as a cut flower, also deliciously fragrant; the color is a pleasing shade of salmon, turning to pink.

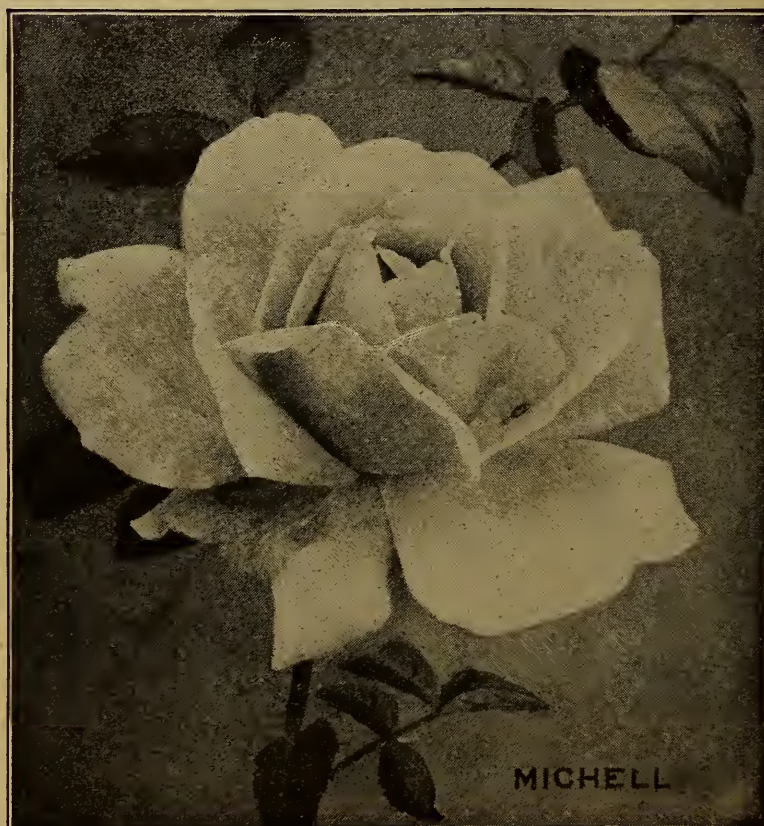
HT Jonkheer J. L. Mock. One of the richest roses in cultivation. The flower is perfect, being a grand shade of deep pink, while the outer petals are silvery rose. A free bloomer. 50c. each; per doz., \$5.00.

HT Killarney. In shape nothing can approach this beautiful rose, its long perfectly shaped bud, which on the outside is of a delicate pink, unfolds a flower with a deeper pink on the inside.

HT La France. Satiny rose, with reflexed petals, which are of a darker pink on the reversed side.

HT Lady Ashtown. Delicate rose with a trace of yellow at the petal base. The outer flower leaves expand, while the centre petals remain in exquisite bud form.

With proper care these will flower uninterruptedly and profusely from June till heavy frosts. Their foliage is leathery and very clean; the flowers are borne on strong, extra long stems, their fragrance is deliciously sweet. While they are absolutely hardy, we recommend a covering of long old manure, leaves or straw during the winter, also that the soil be drawn up about the plant 6 or 8 inches at the stem. Varieties marked HT are more hardy than the varieties marked T, which indicates the old-fashioned Tea sorts. The latter, on the other hand, flower a trifle more freely, though no disappointment would follow in a selection of either type exclusively.



The Ever Popular Pink Killarney

Prices of Roses on this Page except where noted, (extra strong pot-grown plants) 50c. each; dozen \$5.00; \$40.00 per 100 (ha)



Hybrid Tea Rose, Joseph Hill (see page 140)

PINK VARIETIES (Continued)

T Maman Cochet (Pink). In the vicinity of Philadelphia this rose is grown perhaps more than any other on account of its many good qualities. The individual large flowers are often on stems 2 feet long which makes it grand as a cut flower. The shade of color is a "Bridesmaid Pink."

HT Mme. Abel Chatenay. Carmine rose, shaded deep pink. A strong grower and free bloomer, producing an exquisite bud.

HT Mme. Caroline Testout. One of the oldest and best varieties. The flowers are of a bright satiny rose shaded deeper in the centre; bud and flower are open or cup-shaped and are very double.

HT Mme. Jules Grolez. A flower with an extremely long pointed bud and of a delicate silvery rose, tinted yellow at the base; very hardy and desirable.

HT Mrs. David Jardine. Immense double flowers are borne on straight long stalks abundantly all summer, but especially free during June and late in the fall, preferring the cooler weather. Color is a magnificent rose-pink, shaded lighter toward the edges.

Ophelia. A vigorous grower with salmon-flesh shaded pink flowers, which are of perfect shape and very large; long stiff stems, which make it ideal for cutting. 75c. each; doz., \$7.50.

HT Lady Alice Stanley. Deep rose, the inner petals are pale pink; large, fragrant flowers. 75c. each; doz., \$7.50.

HT Mme. Segond Weber. A free-flowering vigorous plant, with large, beautiful flowers; soft salmon-pink.

T W. R. Smith. Blush white, suffused bright rosy pink, with large, well-formed flowers.

HT Mrs. W. Christie Miller. Soft peach, shaded salmon. Outer petals vermillion rose. 60c. each; doz., \$6.00.

Königin Carola. Satiny rose, with silvery white reverse petals; long pointed bud, terminating into a large flower.

HT My Maryland. Perfect form and exquisite fragrance. Salmon pink shade, which becomes lighter as the flower opens. It is an elegant grower, and sure to please.

HT Prince de Bulgarie. In this rose one will find a combination of colors that is not duplicated in any other; delicate flesh pink shaded deeper in the centre and suffused salmon. The flowers are extremely large and very double. 60c. each; doz., \$6.00.

Bourbon T Souvenir de la Malmaison. One of the old garden favorites, flowering from early in the season until snow. The flowers are very double deep flesh colored in the centre running to a light pink towards the outer edge. For cemetery planting no variety equals this one.

HT Souvenir de President Carnot. Handsome large flower on a stiff erect stem. Easily one of the best in the Hybrid Tea class. Color a delicate soft pink changing to white.

HT Wm. Shean. Delicate pink; a large full flower of great size. Continuous bearing throughout the season in profusion of blooms.

HT Mrs. Charles Russel. Bright rose pink, deeper toward centre. 75c. each; doz., \$7.50.

Duchess of Sutherland. Large full flower; delicate rose pink shaded yellow. 60c. each; doz., \$6.00.

Hugo Roller. Lemon yellow shaded crimson, free bloomer all season. 60c. each; doz., \$6.00.

TESTIMONIALS ON MICHELL'S ROSES

Chester, Pa.
The roses you shipped me were extra fine and especially received in good condition.

B. G. Ladomus.

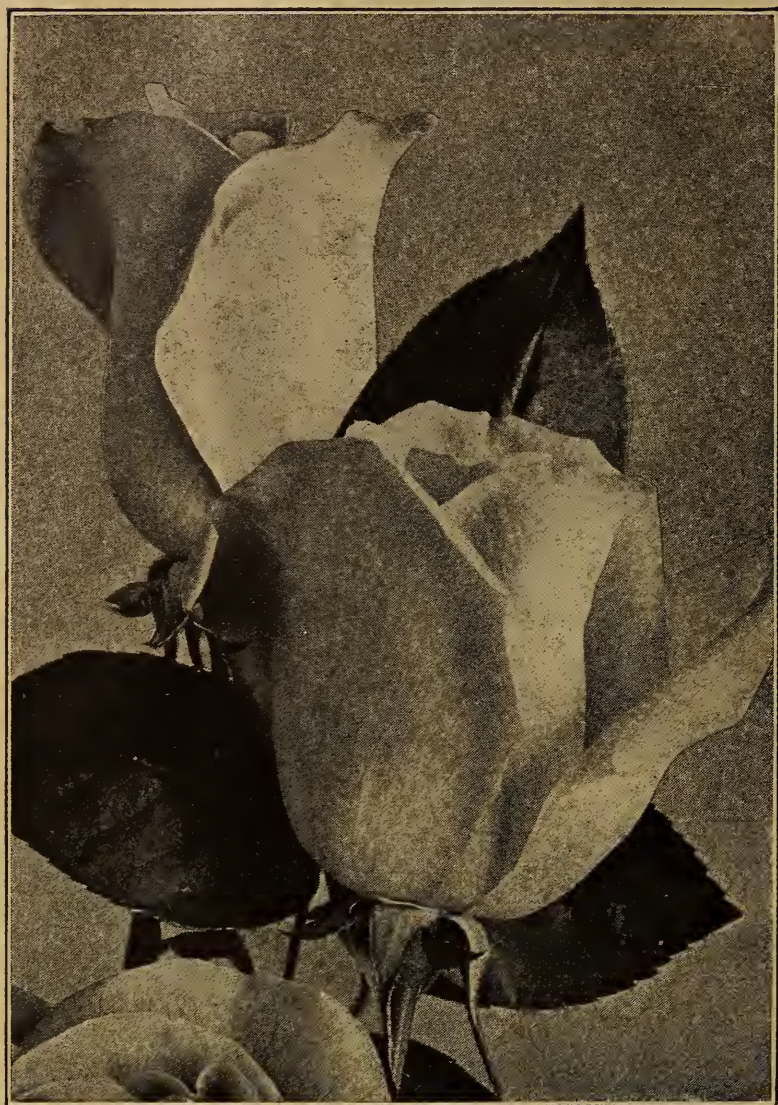
Washington, D. C.

The roses arrived in fine shape and were in extra good condition. I am very much pleased with them indeed, especially for the care you used in filling my order.

F. L. Schultz.



Ophelia (for description see page 139)



Rose, White Killarney

WHITE VARIETIES

- HT British Queen.** A wonderful new variety, described on page 138. Price, 75c. each; doz., \$7.50.
- HT Bessie Brown.** Free flowering, vigorous grower with gigantic, fragrant flowers. Cream white shade.
- HT Florence Pemberton.** The flower is of exquisite shape, oblong with a curve towards the top; very double, of a creamy white, suffused with pink; always borne on extra long stems, which makes it suitable for cutting.
- T Maman Cochet (White).** The exact duplicate of the Pink Cochet except in color, which is white, occasionally tinted pink.
- T Molly Sharman Crawford.** On opening, the flower is cream colored, which, as the bloom expands, turns to a pure white. We regard it as one of the finest white Tea Roses. 60c. each; per doz., \$6.00.
- HT White Killarney.** Like its sister it is of peculiar shape; long and pointed when in bud; while the flowers are pure white, they are occasionally flushed pink on the outer edge; although the blooms show but few petals, the open flowers are exceedingly attractive on account of enormous petals.
- HT Madame Phillipi Rivoire.** Creamy white, tinged apricot; a beautiful flower, especially when in the bud.
- Kaiserin Auguste Victoria.** A rose that blooms all summer, producing an exquisite well-shaped full flower; the plant is a strong grower and very hardy; one of the best.

PRICES OF ROSES

Unless otherwise noted—

50c. varieties are \$5.00 per dozen; \$40.00 per 100.

60c. varieties are \$6.00 per dozen; \$45.00 per 100.

75c. varieties are \$7.50 per dozen; \$55.00 per 100.

RED VARIETIES

- HT Earl of Gosford.** One of the newer varieties, fully described on page 138. Price, 75c. each; doz., \$7.50.
- HT Chateau de Clos-Vougeot.** Rich fiery scarlet, which changes to velvety crimson as the flower becomes older. A rose that will bloom all season. 60c. each; per doz., \$6.00.
- HT Edward Mawley.** One of the finest of the velvety crimson varieties in size, shape and color. It has all the good qualities a Hybrid Tea Rose can possess. 60c. each; per doz., \$6.00.
- HT Etoile de France.** Intense brilliant crimson of fine fragrance, producing elegant pointed buds, which open into an extra large flower. 60c. each; per doz., \$6.00.
- HT Gen. MacArthur.** Recommended as the best deep scarlet rose in existence. The fragrance is delightful and blooms, even under most unfavorable conditions, are produced in great number.
- HT George C. Waud.** A rich shade of vermillion, shaded towards orange. The graceful pointed buds develop into a beautiful, full flower. It is very hardy and free.
- HT Gruss an Teplitz.** This is often termed the reddest of the red roses. The foliage, which takes on a coppery red color, is almost hidden with masses of flowers, the centre of which are light red, while the outer petals are crimson red.
- HT Laurent Carle.** Carmine red; very fragrant, with large perfect flowers, which are produced all summer long.
- HT Richmond.** A beautiful variety, a rich shade of crimson; should be in every collection, as nothing approaches it in form for this color.
- HT Geo. Dickson.** This wonderful rose is described on page 138. Price, 75c. each; doz., \$7.50.
- HT Mary Countess of Ilchester.** Crimson carmine, a shade almost indescribable. Highly scented flowers of immense size. 60c. each; doz., \$6.00.
- HT Mrs. Walter Easlea.** Glowing crimson carmine, outer petals satiny crimson; large full flower of great fragrance. 60c. each; doz., \$6.00.
- HT Willowmere.** A grand variety, described on page 139. 75c. each; doz., \$7.50.
- HT Lieutenant Chaure.** Velvety crimson, large full flower; long pointed bud; vigorous and free flowering. 60c. each; doz., \$6.00.
- HT Mrs. A. R. Waddell.** Rosy scarlet buds, opening reddish salmon; reverse of petals rosy scarlet; a very free bloomer. 50c. each; doz., \$5.00.
- T Souvenir de Catherine Guillot.** Coppery carmine, shaded orange in the centre; an exceedingly rich color of great excellence; semi-double.



Rose, Laurent Carle



YELLOW VARIETIES

This color embraces probably the best of the Hybrid Tea Rose family. The rich shade of yellow is in great variety, while the odor is delicious. Many of the best varieties in this color do not make strong growing plants, so any extra care bestowed upon them will be more than rewarded with an abundance of bloom.

T Etoile de Lyon. A very fine flower and bud of sulphur yellow shade; does exceedingly well in hot weather.

HT Franz Deegen. A rich yellow orange, darker in the centre. Deliciously fragrant.

T Harry Kirk. The flowers are large, very double, of a deep canary color, edged with sulphur; free bloomer and one of the "Gold Medal" type. 60c. each; per doz., \$6.00.

T Lady Hillingdon. Deep coppery yellow and an attractive long bud. It is very free in growth and a continuous bloomer. 60c. each; per doz., \$6.00.

HT Madame Ravary. A remarkable color, deep Nankeen yellow turning lighter toward the centre; a large double flower.

HT Marquise de Sinety. Light orange yellow with lighter outer petals. The centre is shaded a coppery red, indeed the color is one hard to be described. Must be seen to be appreciated. 60c. each; per doz., \$6.00.

HT Mrs. Aaron Ward. A conspicuous rose on account of its coloring which is new; as a bud it is deep Indian yellow, as it opens it adopts a broad margin of light yellow on the inner edge, when fully opened it is light yellow throughout. Very free bloomer, the flowers are very exquisite. 60c. each; per doz., \$6.00.

T Perle des Jardins. The only true pure yellow rose. The bud and flower are of medium size, borne on slender wavy stems; extremely desirable on account of its true tea rose fragrance. It should be protected during the winter.

HT Souv. de Gustav Prat. Sulphur yellow, an exquisite variety, very free and vigorous bloomer. 60c. each; doz., \$6.00.

T Souv. de Pierre Notting. A splendid variety on account of its freedom of bloom, which extends through the whole season. The color is an apricot yellow, blended a copper shade.

HT The Lyon. Easily recognized by its wonderful color, which is a warm coral red with a buff yellow base; the flowers are immense in size and are cup-shaped, both bud and open flowers are very attractive.

HT Mrs. Sam. Ross. Pale straw; flushed deeper yellow on the reverse of the petals; extremely free flowering and of great fragrance; grand variety. 75c. each; doz., \$7.50.

HT Old Gold. A remarkable color combination, described on page 139. Price, \$1.00 each.

PRUNING SHEARS



A good pair of these will be found indispensable in the rose garden. On page 212 will be found a complete assortment offered.

No. 109. Wiss Pruning Shears made of solid steel. 8 inches long; \$2.00 per pair. Parcel Post weight, 2 lbs.

ROSE GATHERER (See below)



Cuts the stem and holds it without crushing. Just the thing to carry in the pocket or flower basket. 6 inches long. No. 177; price, \$1.00.

ROSE SCISSOR (See opposite)

Cuts flower and holds the stem. Nickeled. No. 1922; \$1.00.



Mrs. Sam Ross

HT Sunburst. Long pointed buds; golden orange flowers; very free bloomer and a strong grower. 50c. each; doz., \$5.00.

HT Duchess of Wellington. Deep saffron yellow, inclined to orange; buds are long and pointed, while the petals are of wonderful substance. 60c. each; doz., \$6.00.

HT A. R. Goodwin. Rich coppery orange. It develops into soft pink, as the flower opens. Free vigorous bloomer.

HT Dorothy Page Roberts. Coppery yellow; the flower petals have wonderful substance and are produced with wonderful freedom. 60c. each; doz., \$6.00.

HT Madame Leon Pain. Salmon, with a deep orange yellow centre, pink on the reverse petals. The flowers are large, full and very free.

HT Madame Melanie Soupert. Rich salmon yellow, tinged carmine and pink; an unusually fine flower.

T Miss Alice de Rothschild. Rich deep yellow; the flowers are large, full and of perfect shape. Vigorous grower and continuous bloomer. Very fragrant. 60c. each; doz., \$6.00.

144 MICHELL'S HYBRID PERPETUAL HARDY ROSES

These differ in character from the Tea sorts in that they produce their crop of flowers for the most part in June and during the following months occasionally a few blooms. The flowers are of immense size, very double with the real old-fashioned rose odor. They deserve a place in every garden, where roses are a feature. The plants are very strong growing and after flowering should be cut back slightly. This induces new growth of wood for the following season, making them more bushy. On the first approach of lasting spring weather the plants should again be pruned back to within 8 or 10 inches of the ground, when a marvelous rose crop will follow. They are extremely hardy and need no protection. While the Tea Roses have supplanted them to a great extent, nevertheless, this class deserves a place in every rose garden.

PINK VARIETIES

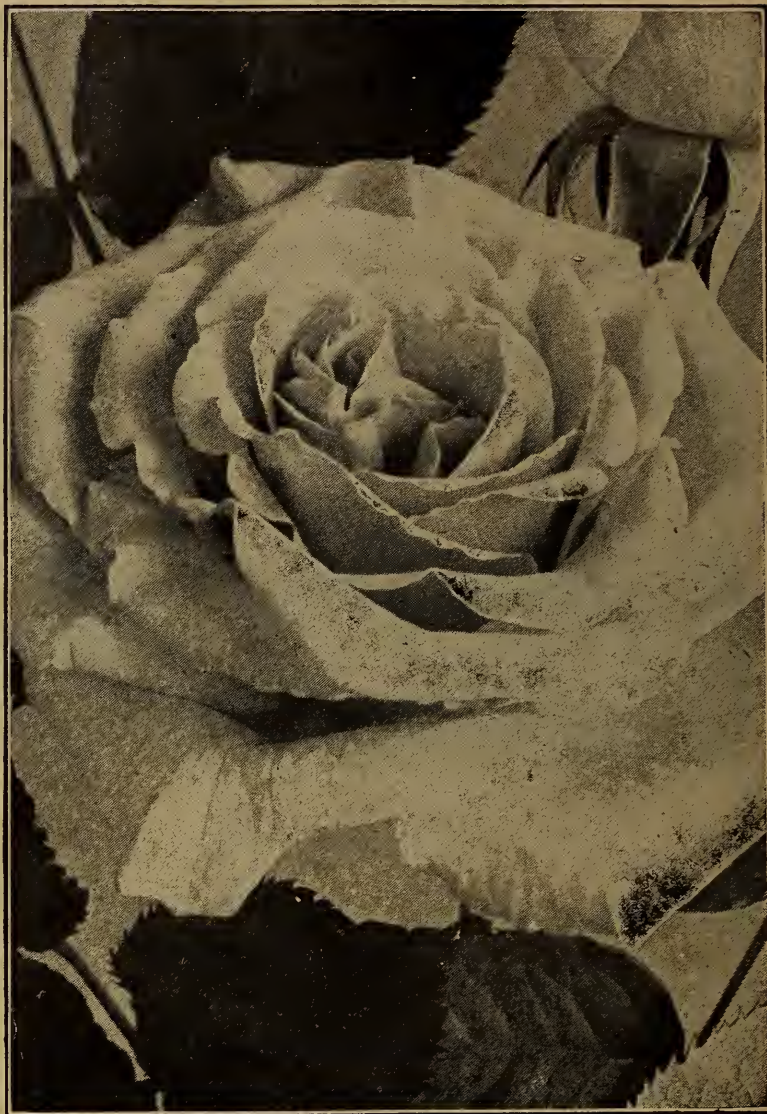
- Baroness Rothschild.** Soft delicate pink, very large.
- Captain Christy.** Delicate flesh pink, very free.
- Clio.** Delicate flesh color, shaded deep pink in the centre.
- George Arends.** This is a clear pink variety of the Druschki type. It is frequently referred to as the pink Druschki Rose.
- Madame Gabriel Luizet.** Pale pink, very sweet.
- Magna Charta.** One of the largest; color deep pink.
- Mrs. John Laing.** Soft pink, very fragrant and large.
- Mrs. R. G. Sharman Crawford.** The finest light pink rose.
- Paul Neyron.** The largest of all roses, deep rose.

RED VARIETIES

- Fisher Holmes.** Bright scarlet, shaded deep maroon.
- General Jacqueminot.** The old favorite; velvety crimson.
- Prince Camille de Rohan.** Deep velvety crimson maroon.
- Ulrich Brunner.** Bright cherry red, flowers large and full.
- Baron de Bonstetten.** Velvety red, almost black; a vigorous grower; large, double, sweet-scented flowers.

WHITE VARIETIES

- Frau Karl Druschki.** An exquisite flower of the purest white.
 - Margaret Dickson.** A very large, pure white; the best of its color in the Hybrid Perpetual class.
 - Gloire de Lyonnaise.** White, with a slight trace of yellow; very large full flower. One of the best in this color.
- Price of any of the above extra strong, 2-year-old plants, 50c. each; \$5.00 per doz.; per 100, \$35.00.



Hybrid Perpetual Rose, Mrs. John Laing

AUSTRIAN BRIARS AND HYBRIDS

Rather a distinct class, being of wonderfully strong growth, and flowering in the early summer and again somewhat in the late summer and early fall.

Juliet. This rose is a favorite wherever seen, and cannot fail to give satisfaction; in Britain it is one of the principal cut flower varieties. The color is a rich vermilion red, the reverse of the petals old gold. It is a strong, erect grower and delightfully fragrant.

Persian Yellow. Very hardy, producing medium sized flowers of a rich deep yellow. Very double.

Soleil d' Or (Golden Sun). Varies from golden orange to reddish gold, large, full, perfectly double flowers and a continuous bloomer.

Price of any of the above extra strong, 2-year-old plants, 50c. each; \$5.00 per doz.; per 100, \$35.00.

ROSA WICHURIANA (The Creeping or Memorial Rose)

The long slender stems which are completely dressed with small glossy deep green foliage trail to any rock, ground, trellis or wire and often grow 20 feet in one year. During their flowering season the foliage is entirely hidden by the wealth of fragrant blossoms. For cemeteries they are ideal, as they flower about the end of May. Rockeries, terraces and bare spots in gardens cannot be more readily beautified. We send out extra strong plants only. For steep embankments, where nothing else will grow, Wichuriana Roses do wonderfully well.

	Each	Doz.
Gardenia. Buds bright yellow, open double cream-colored flowers	\$0.40	\$4.00
Wichuriana Type. Single white flowers.....	.40	4.00



Rosa Wichuriana makes a handsome wall decoration

Our Roses Are Extra Large and Can Be Shipped via Express or Freight Only. No Plants sent C. O. D. (hs)

DWARF, BABY RAMBLER, or POLYANTHA ROSES

For bedding, simply to produce a flowering effect, these give remarkable satisfaction. They are not much for fragrance or cutting, but the large panicles of flowers are appearing continuously from June until severe frost. They are best when kept pruned to a height of about 2 feet, at which size they develop into handsome, shapely bushes.

Annchen Muller. Brilliant rose pink flowers, produced in enormous clusters. The flower petals are somewhat frilled.

Cecile Brunner (*Sweet Heart*). Soft pink on white ground. See page 138.

Erna Terschendorff. The true scarlet Baby Rambler, decidedly the best colored one in this class and holds its color.

George Elger. Coppery yellow; very beautiful and dainty, with a distinct tea rose odor. See page 138.

Jessie. Bright orange red flowers, almost single, produced in clusters in great abundance.

Katherine Zeimet (*White Baby Rambler*). Pure white, with yellow stamens; effective when planted in with pink or scarlet.

Louise Walter. Soft blush pink, almost the exact shade of the variety "Tausendschoen." The flowers are very large.

Madame Norbert Levavasseur (*Crimson Baby Rambler*). This is identical with the Crimson Rambler in color and form, except that it is probably more intense red.

Mrs. W. Cutbush (*Pink Baby Rambler*). A cerise pink; a persistent bloomer, with very double flowers.

Orleans. Rich brilliant red flowers, which turn to pink as they become older. The centre of the flower is white.

Phyllis. One of the best Baby Rambler. The color is a beautiful carmine pink; a continuous bloomer and very hardy. Price of any of the above, 50c. each; doz., \$5.00; \$35.00 per 100.



Tree or Standard Rose—Frau Karl Druschki

STANDARD or TREE ROSES

We have confined ourselves to eight of the most popular kinds, which includes some of the Tea varieties and Hybrid Perpetuals. In Europe they are planted more extensively than the bush. They are budded plants and we recommend that the stems or trunks are slightly protected during winter. This can be accomplished with either paper or straw or they can be bent down carefully and the trunk covered with suitable litter or soil.

Please Note.—Tree Roses are usually in a dormant condition till May 1st, and should not be condemned as dead, as it takes them a long while to break into foliage.

HP Frau Karl Druschki. Very large flower; pure waxy white. This is sometimes referred to as the white American Beauty. We can recommend this variety in highest of terms to every lover of roses.

HT Gruss an Teplitz. This is often termed the reddest of the red roses. The foliage, which takes on a coppery red color, is almost hidden with masses of flowers, the centre of which are light red, while the outer petals are crimson red.

HP J. B. Clark. Scarlet, shaded crimson; very large flowers.

HT Killarney. In shape nothing can approach this beautiful rose, its long perfectly shaped bud which on the outside is of a delicate pink unfolds a flower with a deeper pink on the inside.

HT La France. Satiny rose, with reflexed petals, which are of a darker pink on the reverse petals.

HT Mrs. Aaron Ward. Deep Indian yellow, when fully open it is lighter.

HP Paul Neyron. Deep rose pink, producing flowers of an enormous size; very double.

HP Ulrich Brunner. Bright cherry red; large full flowers of rich fragrance.

Price of any of the above Standard or Tree Roses, fine pot-grown plants, \$1.25 each; doz., \$10.00. One each of the above eight varieties for \$6.75.



The Baby Rambler is one of the best Roses for bedding

CLIMBING ROSES (Continued)

Christine Wright. One of the new varieties, and a cross between the popular Hybrid Tea, Caroline Testout and a seedling. This rose when more widely known will be extensively planted. The color of the flower is a bright rose-pink, measures $3\frac{1}{2}$ to 4 inches across, is of perfect form, beautiful in the bud and acceptable in the fully developed flower. During June it is at its best, but continues to give flowers throughout the entire season. This is sure to give satisfaction. We offer extra strong plants at 60c. each; doz., \$6.00; \$45.00 per 100.

***Climbing Kaiserin Augusta Victoria.** This possesses all the qualifications of the dwarf Kaiserin, particularly the freedom of bloom, exquisite odor, and the fine shade of white. Extra strong, 2-year-old plants, 50c. each; doz., \$5.00; \$35.00 per 100.

***Climbing Killarney.** Delicate soft pink, identical with the dwarf variety, bearing the same name. As the flower unfolds, it shows a shade of deeper pink on the inner petals. Extra strong, 2-year-old plants, 50c. each; doz., \$5.00; \$35.00 per 100.

***Climbing Lady Ashtown.** Delicate pink, with a slight trace of yellow at the petal. While the outer petal expands, the center remains in bud form. 60c. each; per doz., \$6.00; \$45.00 per 100.

Climbing American Beauty. A rose which has come to stay. Climbing American Beauty is a decided acquisition, possessing the deep pink color of one of its parents (American Beauty), and also its very delightful fragrance. We have here a combination of qualities very rarely found in this class of Roses. It often makes canes 15 feet long in a season; the flowers are $3\frac{1}{2}$ to 4 inches in diameter and produced in great profusion, not only during May and June, but off and on all summer. Extra strong plants, 60c. each; doz., \$6.00; \$45.00 per 100.

***Climbing La France.** Satiny rose, with reflexed petals, which are darker pink on the reverse side. The climbing form of this variety is equally satisfactory as the dwarf one. Extra strong 2-year-old plants, 60c. each; doz., \$6.00; \$45.00 per 100.

Glorie de Dijon. This rose is not hardy in the latitude of Philadelphia, but is such a grand variety and in constant demand it has been added to our list; exquisitely scented; a beautiful flower; salmon pink. South of Washington the variety is generally hardy, though we recommend even there slight protection during winter. 50c. each; doz., \$5.00.



Moss Rose

MOSS ROSES

In our grandmother's garden the Moss Rose was considered the finest flower. When in bud form, these are unusually attractive; the base of the flower is covered with what seems to be a delicate mossy growth. We do not recommend heavy pruning of Moss Roses, as a slight thinning out of the wood, in the season after they have flowered, is sufficient.

Blanche Moreau. An exquisite pure white variety, producing large flowers.

Crested Moss. Deep rose pink; remarkably attractive flower.

Crimson Globe. Rich deep crimson, large full flower.

Price of any of the above, extra strong 2-year-old pot-grown Moss Roses, 50c. each; doz., \$5.00.

ROSA RUGOSA (Japanese or Shrubbery Rose)

Very robust with deep green puffed foliage and produces semi-double and double flowers in profusion during June. In fall and winter the plants are covered with bright red, large berries; an excellent plant for a shrubbery bed or a solid hedge.

	Each	Doz
Alba. Single white	\$0.35	\$3.50
Blanc Double de Coubert. Large double pure white	.50	5.00
Conrad Ferd. Meyer. Double, light pink.....	.50	5.00
Rubra. Crimson carmine, single .....	.35	3.50

LARGE FLOWERING CLIMBING ROSES

American Pillar. Single, flowers large, $2\frac{1}{2}$ to 3 in. in diameter, of a rich shade of pink with a distinct white centre, produces immense clusters, being very showy and attractive. The growth is exceptionally strong, foliage a shiny dark green, and insect-proof. An additional attraction in autumn are the clusters of red seed berries. Extra strong, 2-year-old plants, 50c. each; doz., \$5.00.



Rosa Rugosa



Climbing Rose "Lady Gay"

Aviator Bleriot. Improved yellow Rambler. A vigorous grower with dark green, glossy foliage, which seems to be immune to attacks by insects and disease. It produces large clusters of double, deep sulphur yellow flowers, darker yellow, almost an orange shade in the centre. It is a variety which will appeal instantly to all lovers of climbing roses. 60c. each; doz., \$6.00.

Baltimore Belle. An old favorite with blush flowers, borne in large clusters.

Crimson Rambler. This well-known variety produces in abundance large clusters of crimson flowers. We have the latest improved strain of this variety, which is almost mildew proof.

Dorothy Perkins. Pink flowers in long sprays which are very fragrant and lasting; a deservedly popular rose.

Excelsa (The Crimson Rambler par excellence). This variety supersedes to a great extent the older Crimson Ramblers, not only by reason of its intense crimson-maroon flowers, which are tipped with scarlet and are very large for a rose of this type, but because of its healthy lustrous foliage, which is free from mildew. It is a very free-flowering rose, its blossoms breaking from almost every eye in clusters of from 30 to 40 flowers.

Flower of Fairfield (The everblooming Crimson Rambler). Exactly like the Crimson Rambler in appearance, except Flower of Fairfield blooms periodically during the summer. It is very vigorous; many new growths made each season. Considered the best of the Crimson types of Rambler Roses.

Hiawatha. Single brilliant scarlet, with a yellow circle around the centre, flowering in large clusters. Most dazzling and effective. The foliage is retained until very late in autumn and always presents a clean, bright green, healthy appearance; should be on every pergola, though it is attractive when supported on a single stake.

Price of any of the Climbing Roses on this page (except where noted) in strong 2-year-old plants, 50c. each; doz., \$5.00; \$35.00 per 100.

Since the introduction of the Crimson Rambler, Climbing roses have made rapid strides in popular favor. A great number of varieties have been put on the market since then, some of which we have found by careful trial to be of exceptional merit. They are of strong, robust growth, often making shoots 20 feet long in a single season, and when in flower are truly a magnificent sight. We offer only the best sorts in heavy 2-year-old plants.

Note.—Climbing roses do not require annual pruning, as do the H. P. and H. T. varieties. A good thinning out, though, of the surplus wood in the early spring, or after flowering time is advisable. In pruning the climbing Roses, which are of a H. T. nature, such as are marked with an * (see page 146), if the weak, thin wood is cut out entirely, and the strong shoots are cut back somewhat, they respond marvelously with a wealth of bloom. Climbing roses produce their main crop of flowers in June.

Lady Gay. Cherry pink buds, which when open are of a soft white color; very free flowering; extremely useful variety.

Silver Moon. Gigantic pure white flowers (resembling somewhat a Clematis bloom), frequently 5 inches in diameter. This is the ideal climbing rose for planting along fences, while for pillar and trellis work it is equally satisfactory. It has a delicate rose scent, and the flower stems are frequently 15 inches long. The foliage is rich green, at times shaded bronze. The flowers are especially attractive in the evening and even in the dark they stand out conspicuously; we judge from this fact alone, it has received its name. Extra strong, 2-year-old plants, 75c. each; doz., \$7.50; \$50.00 per 100.

Tausendschon. We cannot too highly recommend this rose on account of its free-flowering qualities and its exquisite shade of soft pink, which changes to a rosy carmine when fully open. These flowers are borne in large sprays of from 10 to 15 flowers each, individual flowers measuring quite 3 inches across. For pergolas or pillars it has few equals.

White Dorothy Perkins. The best white Rambler Rose yet introduced, being an exact counterpart of Pink Dorothy Perkins, excepting color; a desirable rose. A variety that is practically immune from attacks of mildew.



Single Flower of Climbing American Beauty Rose

(See page 146)

SPECIAL NOTE REGARDS ROSE PRICES

In making a selection of roses, customers are entitled to dozen rates if their order calls for 6 roses; in 6 or less varieties when all the varieties ordered are listed at the same price. If the order calls for 25 roses in 25 or less varieties, customers are entitled to the hundred rate, provided the 25 or less varieties ordered are listed at the same price.



Results like this can be obtained by planting Michell's Hardy Perennials

Our list has again been carefully revised; some of the old varieties are displaced with better sorts, while there are also included many new varieties not previously offered. We devote to this class of stock some 39 acres and have now established for the benefit of customers a permanent border of perennials, wherein is planted some of every variety of hardy plants and roses, listed in this catalog. During the spring, summer and autumn plants, our customers or whoever is interested, will find a visit to our Nurseries not only interesting, but very instructive. All plants are carefully labeled in our trial beds, so that one can take his own time in making notes and observations. Our Nursery Superintendent will be glad to have a competent person lend any assistance, or give information that might be desired. Your trade in the line of perennial plants is especially solicited. Directions for reaching our Nurseries will be sent on request.

Adonis (Bird's Eye)

By no means a new plant, but one of the best for early spring bloom; the ornamental, finely cut foliage is alone an attraction, while the flowers appear almost before winter has disappeared.

Amurensis. Large single yellow flowers; the plant grows about 12 inches high. 50c. each; doz., \$5.00.

Amurensis Fl. Pl. An attractive form of the above with double flowers. 50c. each; doz., \$5.00.

Anchusa

A wonderful perennial that should be planted in every garden, when in full bloom it seems to be all flowers, so that the foliage and plant are hidden almost out of sight.

Myosotidaeflora. Dwarf growing, producing a mass of Forget-me-not shaped flowers in April and May of a bright shade of blue. 25c. each; doz., \$2.50; \$17.50 per 100.

Anemone (Wind Flower)

A description of these is hardly necessary since it can be said that no perennial collection is complete without at least a few Anemones; some of the new varieties are such an improvement over the older sorts that it goes without saying they should be planted extensively.

Enchantment. The large flowers are double, cream white; the backs of the petals are shaded pink, which makes a beautiful blend. One of the best of the Anemones; grows about 3½ feet high. 35c. each; doz., \$3.50.

Arabis (Rock Cress)

A valuable rockery plant or as a border edging. When in bloom a mass of them present a sheet of color; flower generally in April; growing about 6 inches high.

Alpina Rosea. A pink variety is quite welcome in this family of perennials; the plants are literally covered in April and May with beautiful rose pink blossoms. 25c. each; doz., \$2.50; \$15.00 per 100.

Asters (Hardy). New Varieties

In the late summer and autumn, when most other flowers are on the wane, the hardy Aster hails forth in full beauty; it can be said to rival with the Dahlia, Cosmos and Hardy Chrysanthemum, but is really more graceful than any of them.

Advance. Clear Cambridge blue, with a bright yellow centre; grows 4 to 5 feet high; flowering in September. 25c. each; doz., \$2.50.

Abendröte (Evening Glow). Rich rosy red flowers; growing 2½ feet high and very compact in growth. 25c. each; doz., \$2.50.

"Hardy Perennials and How to Grow Them"

A comprehensive treatise of 48 pages, including plans for hardy borders, together with a complete list of varieties. This book is free. Send for a copy.

Asters (Hardy) New Varieties (Continued)

Climax. Clear light blue, with yellow centre; the flowers are often 2 inches across; when cut, this variety keeps in water a long while; an exceptional variety for decorating; growing 4 to 5 feet high; flowering in September. 25c. each; doz., \$2.50.

Don. Large blue flowers, suffused with pink; centre yellow; grows 4 to 5 feet high and blooms in September. 25c. each; doz., \$2.50.

Ericoides Alba. Heather-like foliage; densely covered with graceful white flowers, which appear in September on plants 3 to 4 feet high. 25c. each; doz., \$2.50.

Ericoides Superba. Of graceful branching habit; flowers pale blue; plants grow 6 feet high and bloom in October. 25c. each; doz., \$2.50.

Marjorie Hickman. Silvery mauve; flowers very symmetrical in form; a grand cutting variety; grows 4 to 5 feet high; flowers usually in September. 25c. each; doz., \$2.50.

Peggy Ballard. This is best described as a rosy lilac Beauty of Colwall; the plant is very erect in growth, blooming with wonderful freedom; the flowers, when first open, are perfectly double, but as they develop they pass to semi-double; can be easily called the best of the hardy asters; flowers in August; grows 4 feet. 50c. each; doz., \$5.00.

Photograph. White shaded lavender; growing 2½ feet. 25c. each; doz., \$2.50.

Queen. A white form of the variety Climax, with a slight tinge of blush; it grows 4 to 5 feet high; blooms usually in September. 50c. each; doz., \$5.00.



Hardy Aster, Peggy Ballard

Astilbe Arendsi

While not exactly new, we feel that sufficient attention has not been given to this excellent class of perennials; the plummy flower heads are borne on graceful stems well above the plant, making them an ideal cut flower, which appear in abundance in June and July; they prefer a semi-shaded place.

Ceres. A beautiful shade of lilac rose.

Juno. Deep violet blue plumes.

Salmon Queen. Beautiful salmon pink plumes.

Venus. Brilliant purplish pink; a beauty.

Vesta. Light lilac rose; very free.

Price of any of the above Astilbes, 35c. each; doz., \$3.50; \$25.00 per 100. Special offer—one each of the above Astilbes for \$1.50.



Type of Hardy Border Carnations, frequently as large as those grown in greenhouses

Carnations (Hardy Border Varieties)

The popularity of Carnations has increased enormously during the last few years, and were it not that a greenhouse is in most cases necessary, they would most assuredly bid fair to eclipse the rose and become the Queen of Flowers. The chief object of the introducer of these perpetual flowering Carnations has been to secure hardiness and vigor of constitution, combined with free-flowering qualities. This class embraces a marvelous range of color, running from pure white through all the delicate shades of pink, from light to darkest shade of yellow, covering also all the light and dark shades of red. Our stock will produce about 80 per cent. of double flowers, though the single ones are attractive and preferred by many. The plants should be procured and set out as early in April as possible. They thrive in any ordinary, good garden soil; one that has good, natural drainage. At the approach of winter a covering of leaves will be found of benefit to carry them through safely. Strong plants, that will bloom the first year, in mixed colors, as above described, 25c. each; doz., \$2.50; \$17.50 per 100.

TESTIMONIAL ON MICHELL'S PLANTS

Monticello, Ark.

Thank you for the perfectly satisfactory filling of my orders. I am pleased especially with the general quality of the plants received and the condition in which they arrived. The packing is worthy of congratulations.

LAMAR WILLIAMSON.

*Hydrangea, Louis Moulliere*

Buddleia Variabilis Magnifica (Butterfly Bush)

A semi-herbaceous perennial which has probably given greater satisfaction than any variety yet introduced; the large bed of this planted by us at the Panama-Pacific Exposition, the past year, was the admiration of all who saw it, resulting in inquiries pouring into us for information, etc., regarding it.

We were awarded a silver medal for the display created thereby.

The plant produces a great number of flower spikes, frequently 12 inches long, of a beautiful lilac shade; established plants begin to bloom usually in June and last until frost; it grows, when mature, about 5 feet high, and is a great addition to any flower garden or perennial border; having the distinct characteristic of attracting butterflies to the garden. Strong young plants that will bloom the first year. It thrives best in the full sunlight, should be cut down after the first few frosts, and mulched with long manure over winter. 25c. each; doz., \$2.50; \$15.00 per 100.

Clematis (Shrubby Varieties)

The shrubby varieties fit in well with other perennials and will be found of great value in forming collections.

Campanile. The plant forms a clump and grows about 4 feet high, with foliage like Clematis Davidiana; the stems are covered with a profusion of flower clusters, while the individual blooms resemble hyacinth bells; light azure blue, shaded white toward the centre. 35c. each; doz., \$3.50.

Erecta Grandiflora. An exceptional novelty, producing large panicles of pure white flowers, often 1 to 1¼ inches across, growing 3 feet high; this variety is very scarce. 50c. each; doz., \$5.00.

Oiseau Bleu. Small foliage, erect stems; the upper part of the plant being covered with light panicles of hyacinth shaped flowers; azure blue, fading to pinkish lilac. 50c. each; doz., \$5.00.

Funkias (Plantain, Day Lily)

No perennial garden can be truly called complete without at least some of these; even when not in bloom the foliage effect always fills a gap and is attractive; this is especially true with this improved variety offered below.

Robusta Elegans Variegata. A thrifty growing variety, with large, green leaves banded white. 25c. each; doz., \$2.50; \$17.50 per 100.

Gerbera Jamesoni Hybrida (Transvaal Daisy)

Strictly speaking, this might be called a tender perennial, as it requires wintering over in a cold frame. For grace and beauty we know nothing that can approach it. The daisy-like flowers, which cover the various shades of red, orange, yellow and pink, appear freely on low growing plants, the stems being about 18 inches long. It is very desirable as a cut flower, lasting quite a while in water. It flowers very easily in a cool greenhouse or conservatory. Strong plants, to bloom the first season, 35c. each; doz., \$3.50.

Hydrangeas (New Hortensis Varieties)

It seems that perfection will never be reached in this beautiful class of plants. With the occasional additions in variety introduced principally by France, we have a wonderful collection to choose from. For outdoor planting, with slight winter protection, these in a few years make handsome specimens, while when forced for Easter blooming they are equally attractive; for seashore planting this class of hydrangeas are extremely valuable.

La Perle. The largest white flowered variety.

Beaute Vendomoise. The individual florets are frequently 4 inches in diameter, which naturally results in a gigantic flower head, which is inclined to be loose, but none the less attractive; white tinted pink.

Louis Moulliere. A very distinct pleasing shade of deep rose pink, with fringed florets.

Harmonie. Immense trusses of a pleasing shade of fast color pink.

Eclairer. The nearest approach in color to red in this class of plants; a real startling novelty.

Liberte. An unusually attractive shade of pink, with gigantic flower heads.

La France. Large flowers and trusses, with delicate pink florets.

Price of any of the above New Hydrangeas, strong young plants, 35c. each; doz., \$3.50; or 1 each of the 7 varieties for \$2.25.

Lythrum

Salicaria, Brightness. This variety produces long, graceful spikes of brilliant rose pink flowers. Stems about 4 feet long. A desirable plant for borders or massing near streams or lakes. Exceptionally hardy and fine for cutting. Blooms July until September. Strong plants, 25c. each; doz., \$2.50.

Virgatum Rose Queen. The long flower spikes of a most telling shade of rose are wonderfully bright and produced in remarkable abundance. A batch of this in our nursery was a source of admiration from July until September to all who saw it. This is by far one of the brightest colored of the popular "Loose Strife." Grows 3 to 4 feet high. Strong plants, 25c. each; doz., \$2.50.

Lupinus Arboreus (Tree Lupin)

Somerset. Grows in a fine bush form and is literally covered with spikes of soft yellow flowers, about 4 feet high. This variety is entirely separate and distinct from the Polyphyllus type, with which however it masses readily. A grand border plant and extremely valuable for cutting; flowers in July and August. Strong plants, 35c. each; doz., \$3.50.

Monarda (Bergamot)

Salmonia. A splendid new variety, covered in July and August with long flower stems crowned with beautiful salmon pink heads. The foliage has an exclusive pleasing odor. It grows 2 to 3 feet high and makes a handsome show. 25c. each; doz., \$2.50.

TESTIMONIAL ON BUDDLEYA

Manhasset, L. I.

Your hardy Butterfly Bush is indeed a glorious plant and fully fulfills its mission as an attractor of beautiful butterflies. I have counted as many as 9 splendid specimens of different varieties at one time hovering about my small bush.

MRS. D. E. SMITH.



Pyrethrum Queen Mary

Pyrethrum

These are among the showiest of the hardy perennials; for cutting nothing surpasses them. The following two varieties are among the latest introductions.

Queen Mary. Shown before the R. H. S. of England, this variety created a sensation and was unanimously voted an award of merit. The color is a bright peach pink, of a pleasing and distinct shade, altogether a new color in this class of plants. The flowers are large and very double, blooming in July and August. Strong plants, 50c. each; doz., \$5.00.

Lord Roseberry. Brilliant crimson scarlet, almost a dazzling shade. The large flowers are very full and are produced on long stiff stems, making it a gem for cutting. Strong plants, 50c. each; doz., \$5.00.
See also page 170 for other Pyrethrums.

Phlox Arendsi

A newer class of dwarf growing varieties, especially suited to rockery planting; they grow from 12 to 24 inches high; as will be noted cover a variety of colors; blooming from May till well into July.

Amanda. 12 inches high; delicate blue with deep centre.

Charlotte. 18 to 24 inches high; pale lilac, shaded pink, dark eye.

Grete. Of branching habit; 20 inches high; pure white.

Kathe. 20 inches high; purplish rose flowers, with deeper red eye.

Louise. 2 feet high; strong grower; light lilac, with carmine eye.

Price of any of the Phlox Arendsi, 25c. each; doz., \$2.50.
See also page 160 for other hardy Phloxes.

Rudbeckia

The popularity of the "Golden Glow" is almost beyond comment; the variety to follow here though is entirely different, being an improvement on the "Purpurea" variety; truly a fine Rudbeckia.

Morgenröte. A very large single flowered sort, frequently 4 to 5 inches across; of a beautiful rosy lilac color, with a distinct cone of light orange, which harmonizes well with the flower petals. 50c. each; doz., \$5.00.
See also page 171 for other Rudbeckias.

Senecio (Groundsel)

Wilsonianus. A new species from China, bearing immense panicles (very branching in habit) of golden yellow flowers. 50c. each; doz., \$5.00.
See also page 171 for other Senecios.

Salvia

The hardy varieties of this plant are coming into great favor by reason of their beauty and freedom of bloom during the summer.

Uliginosa. A beautiful, late flowering species of an attractive shade of blue with a distinct white eye. This variety was shown in the autumn of 1913 before the Royal Horticultural Society of England, and was greatly admired and received an award of merit. The plant is of upright habit, branching, and with us grows about 5 feet high. It blooms freely and flowers practically at every axil. All who have seen it, at our nursery during the summer and autumn, were impressed with its unique and distinct beauty. Strong plants, 15c. each; doz., \$1.50.

Greggi. This novelty is an extremely useful plant, growing into a symmetrical, hard-wooded shrub, 2½ to 3 feet high. The pretty soft cerise crimson flowers are produced in such abundance as to completely hide the foliage. It blooms the entire summer and is quite hardy. Strong plants ready in May. 35c. each; doz., \$3.50; \$25.00 per 100. See also page 171 for other Salvias.

Solidago (Golden Rod)

Golden Wings. This is such an improvement over all other varieties of this plant that it really deserves a place in the best perennial collection; the immense panicles of bright golden yellow flowers are beautiful beyond description. It flowers continuously from July to September; growing 5 feet tall. 25c. each; doz., \$2.50; \$15.00 per 100. See also page 172 for other Solidagos.

Spiraea (Drop Wort)

Venusta Magnifica. This majestic garden perennial is of wondrous beauty; it grows from 4 to 6 feet tall, with plummy panicles of intense reddish pink flowers; while scheduled to bloom in June and July, it frequently flowers up to late in October; as a tall plant setting in a perennial border it is very effective. 50c. each; doz., \$5.00.
See also page 172 for other Spiraeas.

Stenanthum (Mountain Feather Fleece)

Robustum. An interesting showy perennial from the Carolina mountains; the fine spear-like leaves droop in charming fashion from all sides of the plant, while from the centre of the plant rises a tall flower spike bearing an immense number of small, pure white flowers. 50c. each; doz., \$5.00.

Tritoma

(Flame Flower, Torch Lily or Red Hot Poker Plant)

In summer and autumn when other flowers are on the wane, the Tritoma looms up and furnishes a wealth of bloom till killing frosts check it. A vase of these arranged with autumn leaves or ornamental grasses make a handsome effect. Though the roots are considered hardy, we, however, recommend that they be lifted in the autumn and placed in a box of soil or sand, preferably in the cellar. There are a number of varieties in commerce, but the sort mentioned below seems to be demanded most and fills every need.

Pfitzeri. Blooms from August till October; rich orange scarlet. 25c. each; doz., \$2.50.

Express. A splendid new variety, which flowers much earlier than any other sort, commencing in July and lasts until frost; deep coral red. 25c. each; doz., \$2.50.

Tuckii. The flowers of this variety are of a distinct shade of red, shaded primrose yellow; 4 feet high. August to September. 25c. each; doz., \$2.50.

Quartiniana. Bold, Yucca-like foliage; 5 to 6 feet high; bright scarlet, fading to pale yellow, in early summer. 35c. each; doz., \$3.50.

MacOwani. A wonderful free bloomer; 2 feet high; flowers are rich coral red; splendid for massing. 25c. each; doz., \$2.50.

Special Notice.—If you are interested in **Roses, Carnations, Chrysanthemums** and other **Plants for House Culture**, ask for our "Special Supplement" on these.

MICHELL'S HARDY PERENNIAL PLANTS

Achillea (Sneezewort)

A graceful plant with finely cut foliage. Flowers are fine for cutting; flowering the entire summer.

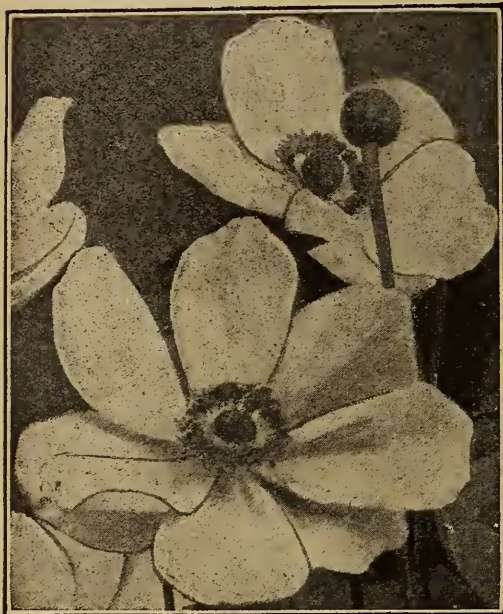
Boule de Neige (*Ball of Snow*). An improvement on The Pearl; flower pure white; 2½ feet high.

Eupatorium. Brilliant yellow; 4 to 5 ft.

Millefolium Cerise Queen. Rich amaranth. An attractive combination when massed with the white variety; 18 in. high; red.

Ptarmica Plena, The Pearl. Flowers the entire summer on strong, erect stems 2 feet high; of the purest white.

Price of any of the above, 15c. each; doz., \$1.50; \$10.00 per 100.



Anemone Japonica

Aconitum (Monkshood or Helmet Flower)

Bushy plants, blooming in clusters of beautiful helmet-shaped flowers from late summer till frost. Well adapted for shade.

Autumnale. Deep purplish blue, flowers in September; 3 feet.

Fischeri. Grows 18 inches high, yielding pale blue flowers.

Lycotomum. A free-flowering pale yellow variety, blooming during June and July.

Napellus. Large flowers, dark blue; August and September; 3 to 4 feet.

Napellus Albus. A white flowered form of the above; 3 to 4 feet.

Napellus Bicolor. Dark blue and white flowers; 3 to 4 feet.

Spark's Variety. The darkest blue of all; 5 to 6 feet high.

Stroekianum. July and August. Rich blue; magnificent flower spikes; 4 ft.

Wiloni. A variety from Northern China, growing 6 feet high; pale violet blue; flowers in September.

Price of Aconitums, 25c. each; doz., \$2.50; \$17.50 per 100.

Adenophora

Potanini. Handsome bell-shaped blue flowers; borne on branching spikes. 15c. each; doz., \$1.50; \$10.00 per 100.

Adonis (Bird's Eye)

These harbingers of spring, with their finely cut ornamental foliage, are of Japanese origin; their golden yellow flowers are the first to greet us, being two weeks earlier than any other hardy perennial.

Amurensis. Large single yellow flowers; 12 inches high. 50c. each; doz., \$5.00.

Amurensis Fl. Pl. Large double yellow flowers; 12 inches high. 50c. each; doz., \$5.00.

Vernalis. Bright yellow; 6 inches; April to May. 25c. each; doz., \$2.50; \$15.00 per 100.

Akebia Quinata (See Page)

Aegopodium (Bishop's Weed)

Podagraria Variegata. Green and yellow variegated foliage; 1 foot high. 15c. each; doz., \$1.50; \$10.00 per 100.

Aetheopappus (New)

Pulcherrimus. The flowers, resembling Giant Cornflowers, are of a dazzling pink. Splendid for cutting; July; 2½ feet high. 25c. each; doz., \$2.50; \$17.50 per 100.



Hardy Aster (See page 153)

Agrostemma (Rose Champion)

Coronaria (*Mullein Pink*). Tufts of silvery foliage throwing up many silver-lined stems 2 feet high, with bright single crimson flowers during June. 15c. each; doz., \$1.50; \$10.00 per 100.

Alyssum (Gold Dust or Basket of Gold)

Splendid edging plants. Ideal for rockery or special flower garden work; 1 foot high.

Rostratum. Bright golden yellow.

Saxatile Compactum. Deep golden yellow.

Price of Alyssums, 15c. each; doz., \$1.50; \$10.00 per 100.

Anchusa Italica (Sea Bugloss)

Dropmore Variety. Plants grow 4 feet high in pyramidal shape; branch freely and are overloaded with bright blue forget-me-not-like flowers in June; very showy and valuable.

Myosotidæflora (New). Dwarf variety; 12 to 15 inches high; covered in April and May with masses of bright blue forget-me-not-shaped flowers.

Opal. Similar to the above variety, with large pale blue flowers; from May to July.

Any of the above Anchusas, 25c. each; doz., \$2.50; \$17.50 per 100.

Anemone Japonica (Windflower)

As a last greeting of autumn these gay flowers appear in wondrous brilliancy and produce a wealth of bloom just before nature clothes the earth with a mantle of frost.

Plants vary from 2 to 3 feet high, and are ideal for cutting; flowers in cup form appear some time in August and remain till frost. Plants require winter protection with leaves, straw or long manure, but amply repay one for the extra trouble taken to care for them. Our stock is unusually fine.

Alba. Large, pure white; 3 to 4 feet.

Alice. While we have some good sorts in white and lavender pink, there never has been a real pink until this variety was placed on the market. The shade is brilliant, which looms up in the garden; it may be used for splendid effect as a cut flower; height, 15 inches. 25c. each; doz., \$2.50; \$17.50 per 100.

Coupe d'Argent. An erect growing, free-flowering variety with large double white flowers; 3 feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Enchantment (New). A beautiful new sort. The large flowers are double, cream-white; back of petals shaded pink, which makes it an excellent combination; 3½ feet. 35c. each; doz., \$3.50.

Geante Blanche. This is the largest single white; a fine, bold flower; really one of the very best. 25c. each; doz., \$2.50; \$17.50 per 100.

Kriemhilde. Semi-double, very large, lovely rose pink flowers; fine for cutting. 25c. each; doz., \$2.50; \$17.50 per 100.

Loreley. Semi-double mauve pink flowers usually 2½ to 3 inches in diameter; one of the finest of recent introductions. 25c. each; doz., \$2.50; \$17.50 per 100.

Mont Rose. Large, perfectly double rose colored flowers; dwarf; compact; 1½ to 2 feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Prince Henry. Deep rich pink double flowers; perfect form.

Purpurine. Semi-double flowers; deep rose. 25c. each; doz., \$2.50; \$17.50 per 100.

Queen Charlotte. Semi-double flowers of a rich pink shade; one of the finest.

Rubra. Rich rosy red, 3 to 4 feet.

Whirlwind. Large semi-double, pure white.

Price of Anemones, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Anthemís (Marguerite)

Tinctoria. One of the most satisfactory perennials. Grows well in any soil; large daisy-like golden yellow flowers. 15c. each; doz., \$1.50; \$10.00 per 100.

Aquilegia

For spring flowers these are invaluable, producing their graceful spurred flowers on stems rising 2 feet over their elegant foliage during May and June. For rocky gardens, semi-shaded places, in hardy borders or planted in clumps, they look effective.

Canadensis. Bright red and yellow.

Chrysantha. Bright yellow, long flowers.

Chrysantha Alba. Pure white, long spurred.

Coerulea. Blue and white, long spurred.

Haylodgensis. Satiny rose, long spurred; a splendid new sort. 25c. each; doz., \$2.50; \$17.50 per 100.

Helenae. A large blue flowering sort with pure white spurs.

Nivea Grandiflora. Pure white; long spurred.

Rose Queen. A newer variety of a pleasing shade of delicate pink, long spurred flowers.

Californica Hybrida. A grand mixture of long spurred varieties covering all shades and colors in this class.

Erskine Park Hybrids (Mixed Colors). A grand mixture of finest varieties, including every color in Columbines.

Price of Aquilegias, except where noted, 15c. each; doz., \$1.50; 100, \$10.00.

Arabis (Rock Cress)

Dwarf bushy plants six inches high; ideal for rockeries and borders. It remains in flower a long while, presenting a perfect carpet of bloom.

Alpina. Single snowy-white flowers. 15c. each; doz., \$1.50; \$10.00 per 100.

Alpina Fl. Pl. Double white, very showy. 25c. each; doz., \$2.50; \$17.50 per 100.

Alpina Rosea (New). A distinct novelty. The plants are literally covered with rose-pink flowers in April and May. 25c. each; doz., \$2.50; 100, \$17.50.

Aristolochia (See Page 175)

Armeria (Sea Pink or Thrift)

Maritima. Attractive dwarf plants, forming evergreen tufts from which numerous rosy pink flowers grow in dense heads on stiff stems 9 inches high, flowering continuously from spring until late in the fall. 15c. each; doz., \$1.50; \$10.00 per 100.

Artemisia

Abrotanum (Old Man). Dark green foliage, which has a pleasant aromatic odor.

Lactiflora. An excellent perennial with flower stems 3 to 4 feet long, covered with creamy white flowers. A planting of these mingled with colored perennials makes a grand sight; blooms continuously from August until late September. 25c. each; doz., \$2.50; per 100, \$15.00.

Pedemontana. Very ornamental variety, with finely cut silvery foliage; 2 feet high.

Stelleriana (Old Woman). Silvery foliage; extensively used for carpet bedding; 18 inches.

Price of Artemisias, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Asclepias (Butterfly Weed)

Incarnata (Swamp Milkweed). Very showy border plant; 2½ feet high; rose pink flowers in July and August.

Tuberosa. A showy plant, 2 feet high, with large heads or clusters of orange flowers blooming in July and August. The bright color is quite a contrast to white and other flowers when planted in the hardy border; fine for cutting. Price of Asclepias, 15c. each; doz., \$1.50; \$10.00 per 100.



Aquilegia or Columbine

Hardy Aster (Michaelmas Daisy)

Tall-flowering, stately plants, which may be used with splendid effect in borders and as specimens in lawns, in large groups or beds. It forms the basis of a color scheme in a perennial border during the months of September and October and often lasts well into November. The rich shades of blue and purple blend harmoniously with most any surrounding. They thrive equally well in sun or partial shade. For cutting they are invaluable. The wide range of color makes this one of our finest summer and autumn flowering perennials.

Abendrote (Evening Glow). A very choice variety; 2½ feet high, with rosy red flowers. 25c. each; doz., \$2.50; \$17.50 per 100.

Advance (New). Clear Cambridge blue, bright yellow disc; habit similar to Climax; 5 feet; September-October. 25c. each; doz., \$2.50; \$17.50 per 100.

Amellus, Perry's Pink. A pleasing bright pink; one of the best in this color; September. 25c. each; doz., \$2.50; \$17.50 per 100.

Amethystinus. Beautiful amethyst blue; a very rich shade and showy; October-November. 25c. each; doz., \$2.50; \$17.50 per 100.

Beauty of Colwall. A grand double-flowering type of a beautiful lavender shade; height, about 4 feet; September. 25c. each; doz., \$2.50; \$17.50 per 100.

Hardy Aster (Continued)

Beauty of Ronsdorf. Undoubtedly one of the finest hardy Asters; the plants are of a branching habit, covered with large delicate lilac rose flowers from August to October. 25c. each; doz., \$2.50; \$17.50 per 100.

Climax (New). A clear light blue, with large golden centre; flowers are often 2 inches across; lasting a long time when cut. An exceptional beautiful variety for decoration; 4 to 5 feet; September. 25c. each; doz., \$2.50; \$17.50 per 100.

Don (New). Large blue flowers suffused with pink, bright yellow centre, somewhat after the style of Climax. 4 to 5 feet; September. 25c. each; doz., \$2.50; \$17.50 per 100.

Ericoides Alba. Lovely heather-like foliage, densely covered with white flowers; very graceful; September; 3 to 4 feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Ericoides Superba. Graceful branching habit; pale blue flowers; 6 feet; October. 25c. each; doz., \$2.50; \$17.50 per 100.

Feltham Blue. One of the most decorative blue varieties; 2½ feet.

Grandiflorus. One of the finest, quite distinct from all others. The flowers are of a beautiful dark violet color, often measuring 2 inches in diameter; October-November; 2½ feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Lady Trevelyan. Pure white; one of the best for cut flowers; 4 feet; August to October. 25c. each; doz., \$2.50; \$17.50 per 100.

Marjorie Hickman (New). Silvery mauve flowers of fine form; good for cutting; 4 to 5 feet; September. 25c. each; doz., \$2.50; \$17.50 per 100.

Mrs. J. F. Raynor. Large, bright rosy red flowers; one of the best; September-October; 3 feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Peggy Ballard (New). The finest introduction of recent years. This is best described as a rosy lilac Beauty of Colwall; of erect habit, producing its flowers in great profusion, which on first opening are perfectly double, eventually passing to semi-double; 4 feet; August. 50c. each; doz., \$5.00.

Photograph (New). A very valuable variety; excellent for cutting; 2½ feet; flowers white, shaded lavender. 25c. each; doz., \$2.50; \$17.50 per 100.

Queen (New). Best described as a white Climax; with only a faint tinge of blush, but all the good qualities of the parent; 4 to 5 feet; September. 50c. each; doz., \$5.00.

Robert Parker. Fine lavender blue, with yellow centre; very tall; September.

Roseus Superbus. A most beautiful Aster; the plant is of sturdy, branching habit, and forms a round flower head; about 2 feet high, with exquisite rose-colored blooms.

St. Egwin. Densely branched, producing beautiful pink flowers; 3 feet; September.

White Queen. Tall growing, pure white, very fine; 4 feet high; September-October.

Price of the above Asters (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

MICHELL'S HARDY PERENNIAL PLANTS



Artemisia Lactiflora (See page 153)

Astilbe Arendsi

The plants of this new Spiraea type are of vigorous growth; $2\frac{1}{2}$ to 3 feet high, producing branched feathered heads of flowers in June and July. They prefer a half shaded location in any ordinary garden soil.

Ceres. Brilliant lilac rose.

Juno. Vigorous grower, with plumes of a deep violet color.

Salmon Queen. Graceful plumes of a beautiful salmon pink.

Venus. Plumes are of a brilliant purplish pink color; charming new variety.

Vesta. Light lilac rose plumes; free-flowering.

Price of the above Astilbes (except where noted), 35c. each; doz., \$3.50; per 100, \$25.00.

Special Offer.—One each of the above Astilbe Arendsi for \$1.50.

Astilbe

The two varieties offered below are vigorous growing plants with beautiful feathered flower heads. They like a half shaded location, and plenty of moisture.

Davidii. The stems, which are 5 to 6 feet high, are crowned with feathery plumes of deep rose violet flowers; June-July. 25c. each; doz., \$2.50; \$17.50 per 100.

Grandis. The panicles of white flowers are frequently $2\frac{1}{2}$ feet long; very attractive; fine foliage; blooms July-August. 25c. each; doz., \$2.50; \$17.50 per 100.

Aubrietia (Wall Cress)

A suitable plant for rock gardens; the broad mass of light green foliage is covered with a sheen of flowers in spring and summer; 6 inches high.

Bougainvillei. Very showy, purple flowers.

Graeca. Deep purple.

Leichtlini. Bright reddish crimson.

Price of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Baptisia (False Indigo)

Australis. A robust growing plant, suitable for the border or wild garden. Foliage is dark green, deeply cut; the flowers are dark blue, borne on spikes, in June and July; 2 feet high. 15c. each; doz., \$1.50; \$10.00 per 100.

Bignonia (See Page 175)

Bocconia (Plume Poppy)

Cordata. A splendid plant, growing sometimes 6 feet high, bearing panicles of creamy-white flowers in July and August; makes a grand effect as a centre in a hardy bed or a border background. 15c. each; doz., \$1.50; \$10.00 per 100.

Boltonia (False Chamomile)

Tall-growing, showy plants, with hardy aster-like flowers appearing in September; 5 to 7 feet.

Asteroides. Pure white; 5 to 6 feet.

Latisquama. Pink, tinted lavender; 6 feet.

Latisquama Nana. Pink, tinted lavender; 2 feet high.

The above, 15c. each; doz., \$1.50; \$10.00 per 100.

Campanula (Bell Flower)

Showy perennial plants of special merit; some are tall, suitable for borders; others are dwarf, for rockeries and edging. In every well-ordered hardy garden Campanulas should have a prominent place. They delight in a good rich loam, preferring a semi-shaded place. The taller varieties should be carefully staked, to prevent them from being broken during windstorms. If the flowers of Campanulas are cut as they fade, it greatly prolongs the blooming period.

Alliariaefolia. Graceful stems of white flowers, blooming in July; 3 feet high.

Calycanthema (Cup and Saucer). These are biennials, and last only one season, when planted in the autumn; Pink, White, and Blue, each color separate; height, 18 inches; June-July. 20c. each; doz., \$2.00; \$12.50 per 100.

Carpatica (Carpathian Hare Bell). Very dwarf and shrubby; ideal for border or rockery planting, being about 8 inches high; flowers from June till frost.

Blue and White, each separate.

Glomerata (Cluster Bell Flower). Densely decked stamens of violet-colored flowers appearing in July and August; height, 20 inches.

Grandis. Large, saucer-shaped violet blue flowers; $1\frac{1}{2}$ feet high; May to July.

Media (Old fashioned Canterbury Bells). This is a biennial type, like the Calycanthema, and will last only one season, when planted in the autumn. It flowers freely in June, July and August, and grows 3 to 4 feet high. Blue, Pink and White, in separate colors, also in Mixed colors.

Pyramidalis (Chimney Bell Flower). The tallest of all Bell flowers, growing from 5 to 7 feet in height, the massive flower stalks being dressed with the beautiful bells from August till October. These being such strong growers, require rich soil and an occasional supply of liquid manure. *Blue and White, each separate, 25c. each; doz., \$2.50; \$17.50 per 100.*

Campanula—Continued

Persicifolia (Peach Bell). Extremely hardy, making a splendid show in June, July and August. The stately spikes are tall, often 3 feet high, and present a grand appearance.

Alba. Pure white.

Coerulea. Light blue.

Trachelium (Coventry Bells). Purple flowers June and July; 3 feet high.

Price of any of the Campanulas (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Calimeris (Starwort)

Incisa. Attractive border plant, growing from 1 to $1\frac{1}{2}$ foot high. The daisylike flowers are of a delicate lavender shade, with a yellow centre; blooms from July to September. 25c. each; doz., \$2.50; \$17.50 per 100.

Callirhoe (Poppy Mallow)

Involucrata. Large crimson flowers with white centre, much resembling a giant mallow or Hibiscus; blooms all summer. 15c. each; doz., \$1.50; \$10.00 per 100.

Lineariloba. Large Poppy-like flowers, crimson and white; 9 inches; June-September. 15c. each; doz., \$1.50; \$10.00 per 100.

Caltha (Marsh Marigold)

Meritorious showy perennials; effective when massed by the side of streams or ponds, growing 12 to 15 inches high and flowering in early spring.

Palustris. Single; bright yellow. 15c. each; doz., \$1.50; \$10.00 per 100.

Palustris Flore Pleno. A double-flowering variety of the above. 25c. each; doz., \$2.50; \$17.50 per 100.

Palustris semi-plena. Beautiful new semi-double form of the Marsh Marigold; a great improvement on both the older varieties. 35c. each; doz., \$3.50.



Campanula or Bell Flower

Carnations (Hardy Border Varieties)

This class embraces a marvelous range of color, from pure white through all shades of pink, from light to darkest yellow, also light and dark red. Mixed colors, 25c. each; doz., \$2.50; \$17.50 per 100.

Cassia (American Senna)

Marilandica. A desirable perennial yielding enormous sprays of oddly formed flowers, bright yellow; the foliage is also showy; 3 to 4 feet; July and August. 15c. each; doz., \$1.50; \$10.00 per 100.

Caryopteris

Mastacanthus (Blue Spiraea). A hardy perennial of the easiest culture, flowering in September and October. The flowers are light blue and are borne in globe shaped heads; 2 feet high. 15c. each; doz., \$1.50; \$10.00 per 100.

Catananche (Cupid's Darts)

The flowers, which are splendid for cutting, resemble somewhat the Cornflower, blooming during July and August.

Bicolor. Blue and white; 2 feet high.

Coerulea. Bright blue; 2 feet. The above 15c. each; doz., \$1.50; \$10.00 per 100.

Cedronella (Balm of Gilead)

Cana. Long spikes of purple, salvia-like flowers, with highly scented foliage; 2½ feet high; July to September. 15c. each; doz., \$1.50; \$10.00 per 100.

Centaurea (Perennial Cornflower)

Fine border plants, producing flowers suitable for cutting; these are quite large, and a bunch makes an attractive display; 2 feet high; flowering from July to September.

Dealbata. Bright rose; 18 inches high.

Macrocephala. Golden yellow.

Montana. Rich violet blue.

Montana Alba. Pure white.

The above 15c. each; doz., \$1.50; \$10.00 per 100.

Celastrus (See Page 175)

Cephalaria (Roundheads)

Alpina. A rare, tall growing plant, 6 ft. high, bearing in July and August delicate sulphur yellow flowers. 25c. each; doz., \$2.50; \$17.50 per 100.

Chamaepeuce (Blessed Thistle)

Diacantha. Thistle-like, crimson flowers, 2½ feet high; August and September. 15c. each; doz., \$1.50; \$10.00 per 100.

Chelone (Shellflower)

Handsome border plants, growing about 2 feet high, and bearing numerous spikes of large flower heads during summer and autumn.

Glabra Alba. Large spikes of cream white flowers.

Lyon. Handsome perennial, which grows in any soil; lovely soft pink flowers.

Lyon Speciosa. A dwarf light pink variety.

Price of Chelones, 25c. each; doz., \$2.50; \$17.50 per 100.

Clematis (Climbing Sorts)(See Page 174)

Clematis (Shrubby Varieties)

This type of Clematis deserves a place in every garden. They form erect bushes, 2½ to 3 feet high, and the flowers, which last a long time, are very attractive.

Campanile (New). Plant forming a clump 4 feet high, with foliage like C. Davidiana; the stems are covered with a profusion of flower clusters; the individual flowers are similar to Hyacinths, when opening, then they become well expanded and reflexed. Color light azure blue, shading to white in the centre. 35c. each; doz., \$3.50.

Davidiana. A beautiful variety, with bell shaped deep blue flowers, which are deliciously fragrant; 3 feet high; August and September. 15c. each; doz., \$1.50; \$10.00 per 100.

Erecta. Very effective plant, with large showy clusters of pure white flowers. 25c. each; doz., \$2.50; \$17.50 per 100.

Erecta Fl. Pl. This is one of the best Perennials in cultivation; it is identical in every respect with Erecta, except that the pure white flowers are double and larger; it should be in every collection. 35c. each; doz., \$3.50.

Erecta Grandiflora (True). A rare novelty, producing large panicles of pure white flowers, 1 to 1¼ inches across; height 3 feet; very scarce. 50c. each; doz., \$5.00.

Oiseau Bleu (New). Small foliage, erect stems; the upper part of the plant being covered with light and elegant panicles; flowers, when opening, similar to Hyacinths, then taking a star-like form; azure blue, fading to pale pinkish lilac. 50c. each; doz., \$5.00.



Dielytra or Bleeding Heart (See page 158)

Cerastium (Mouse Ear)

Tomentosum. A low, creeping evergreen, with silvery foliage and white flowers. Good for rockeries, much used for covering graves; does well in the sun. 15c. each; doz., \$1.50; \$10.00 per 100.

Cimicifuga (Snake Root)

Racemosa. Tall growing plant, 4 to 6 feet high, well suited for borders or naturalizing at the edge of woods; flowers pure white; July and August. 25c. each; doz., \$2.50; \$17.50 per 100.

Dahurica. Bold, erect, cylindrical flower stems, over 4 feet high with a wealth of creamy white flowers in August and September. 25c. each; doz., \$2.50; \$17.50 per 100.

Simplex. One of the latest plants to flower in our collection, beginning to bloom in late September and attaining its greatest beauty about Mid-October, when good flowers are scarce. The spikes, 2 to 3 feet long, are covered with beautiful white flowers; excellent for cutting. 35c. each; doz., \$3.50.

Cinnamon Vine (See Page 175)



Dianthus or Hardy Pinks (See page 158)

Coreopsis

Lanceolata Grandiflora. Flowers rich golden yellow of graceful form and fine for cutting. A few plants make a handsome display either planted individually or in clumps; the flowers are produced in thousands on a single plant, and where quantity and quality are wanted. Coreopsis should be planted; June till October; 3 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Coronilla (Crown Vetch)

Varia. A rampant creeper with handsome globular flower heads of showy bright pink and white sweet pea shaped flowers; a useful plant for covering rough banks or for the rockery. 15c. each; doz., \$1.50; \$10.00 per 100.

Testimonial on Michell's Plants

Paoli, Pa.

The plants you sent me were the best I ever had and the seeds are as good as the very best.

GEO. M. TRIMBLE.

MICHELL'S EARLY FLOWERING HARDY CHRYSANTHEMUMS

Those who are not yet acquainted with this type of Chrysanthemum, on seeing them for the first time, will realize at once their wondrous beauty and free-flowering qualities. Although they are principally cultivated as an outdoor plant, they respond wonderfully when grown inside.

The varieties of these, which we list, are the cream of European sorts, and are a wonderful advance on the popular Pompon types. They are chiefly conspicuous by the fact that some varieties commence to bloom as early as August and continue in flower until cut down by severe frost. The blooms of most kinds measure as much as 3½ to 4 inches across, and if disbudded, form handsome specimen blooms on long stems, admirably adapted for decorative purposes. We predict that when these become better known they will entirely supersede the smaller type of hardy "mums" now in general use. The plants grow in compact form and are usually covered with bloom.

SUGGESTION.—While generally conceded to be hardy we recommend a slight protection of long straw manure over the roots of the early flowering Chrysanthemums during the winter months, or better yet, after they have finished blooming cut the plants down, lift them and place in a cool cellar (light and airy) or in a cool frame and set out in the spring.



Normandie

Almirante (New). Orange buff at base of petals; shading to primrose yellow at edge of petals; a large fine flower which, when disbudded, is often 6 in. across; 30c. each; \$3.00 doz.

Blanche Neige (New). Pure white, a splendid flower; excellent for cutting; greatly recommended; September-October; 2½ feet; 30c.; \$3.00 doz.

Border Beauty. A fiery red shade of orange, tipped gold. A distinct and attractive variety; looms up well from a distance.

Carrie. An old favorite; deep yellow; very prolific.

Champagne. Rich, ruby red; of wonderful free-flowering habit. It is among the later varieties, starting to flower early in October and lasting until mowed down by frost.

Crawford Yellow (New). A magnificent golden yellow; flowering in October; a strong flower and very free; 30c.; \$3.00 doz.

Crimson Marie Masse. Exceptionally fine, having the vigorous habit and free-flowering character of the parent plant; the shade of red is particularly fine.

Ernest Balch. Fiery red; grand for disbudding; huge flowers on a long, stiff stem.

Ethel Blades. A distinct shade of chestnut red, in fact the color is so unique that it is difficult to appreciate, unless one actually sees it in bloom.



La Parisienne

Goachers Crimson. This variety grows about 2½ feet high. When disbudded, the rich crimson blooms are often 5 in. in diameter. It begins to bloom early in September.

Golden Queen of the Earlies. A rich shade of yellow and may be regarded as one of the best in its class.

L'Argenteuillais. A splendid grower, bearing magnificent flowers of a glowing shade of chestnut red.

La Garonne (New). Reddish salmon, tinted old rose; very free, large flowering; 2 feet; Sept.-Oct. 30c. each; \$3.00 doz.

Le Pactole. A vigorous grower, yielding a very large flower of a bronze-yellow shade. It is a fine variety for cutting.

La Parisienne. A very large white type, producing extra fine flowers, blooming towards the end of September.

Mabel Roberts. Beautiful deep pink flowers, produced in long, erect sprays; blooming in September and October.

Madame Marie Masse. A lovely shade of lilac mauve. Commences to flower in September.

Mrs. A. Beech. A distinct shade of bronze; October.

Normandie. Delicate pink of a lovely shade. One of the earliest, beginning in August and lasting well into October.

October Gold. Extremely free-flowering, of a bronzy yellow shade; it blooms late and is one of the very best.

Orange Pet. A pretty shade of orange; terra-cotta.

Provence. Beautiful rose color, with a golden centre, forming a large imbricated bloom; of splendid branching habit and a vigorous grower; September-October; 2½ feet.

Queen of the Earlies. Pure spotless white. Blooms in September and October.

Wells Crimson. Bright crimson flowers, while the reverse and tips of petals are golden bronze.

Price (except where noted) of any of the above Chrysanthemums in strong plants, that will flower the first season, 20c. each; doz., \$2.00; \$15.00 per 100.

SPECIAL OFFER: One each of the above 24 varieties for \$4.00.

Plants ship best by express or freight. None shipped C. O. D.

(hn)

MICHELL'S HARDY CHRYSANTHEMUM PLANTS

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"THE QUEEN OF AUTUMN FLOWERS"

No class of flowering perennials adds such a wealth of color and bloom in autumn to the garden as these. The plants are literally covered with flowers from the middle of September till the snow buries them. Our collection is made up from the best sorts, all undesirable ones (after testing) having been discarded. The letter preceding the name indicates the type of flowers, as explained as follows: S. Small or Pompon type. M. Medium size flowers. Sg. Single flowering. A. Anemone flowering.

YELLOW VARIETIES

- S. Baby. Golden yellow.
- M. Barney. Golden bronze.
- S. Eldorado. Deep yellow.
- M. Excelsior. Light orange.
- M. Globe d'Or. Clear yellow.
- M. Overbrook. Chrome yellow.
- M. Windlass. Rich orange.

BRONZE VARIETIES

- Sg. Aaron. Bronzy scarlet.
- M. Le Czar. Bronze, tipped red.
- M. Sylvia. Scarlet bronze.

WHITE VARIETIES

- S. Baby Margaret. Pure white, miniature size.
- S. Anna Mary. White, shaded pink.
- M. Germania. Straw white.
- M. Gladys. Flushed pearl.
- M. Irene. Blush white.
- S. Jas. Boone. Pure white.
- M. Lady Naylor. Pure white.
- A. Myers Perfection. Pure white.
- M. Queen of Whites. Cream white.

Price of any of the above strong, young plants which will bloom the first season, 15c. each; doz., \$1.00; \$6.50 per 100.

SPECIAL OFFER: 1 each of the above 38 varieties of Hardy Chrysanthemums for \$2.75. An opportunity to get a splendid collection at a reasonable price.

PINK VARIETIES

- S. Cerise Queen. Fine for cutting.
- M. Fairy Queen. Silvery rose.
- S. Dawn. Delicate pink.
- M. Findon. Rich violet rose.
- M. Hero. Clear pink.
- S. Nellie Rainsford. Light pink.
- M. Pink Beauty. Rose pink.
- M. Queen of Bulgaria. Deep rose.
- Sg. Rosy Morn. Silvery pink.
- M. St. Illoria. Silvery rose.

RED AND SCARLET VARIETIES

- Sg. Fred. Peele. Lilac red.
- Sg. Lyndhurst. Scarlet.
- M. Ira. Chestnut red with golden reflex.
- M. Mrs. Porter. Bronze.
- M. Victor. Rosy crimson.
- M. Dundee. Very dark.
- M. Julia Lagravere. Maroon.
- M. Scarlet Beauty. Rich scarlet.
- S. Viola. Rich violet red.



Hardy Chrysanthemum, Aaron

SPECIAL NOTE.—Hardy Chrysanthemums offered above are not always dependably hardy, though for the beautiful autumn flower effects, even if they do not show themselves in the spring, one has been amply repaid all they cost. Referring to their hardiness much depends on the winter and the location; the soil should be loamy and well drained. To be absolutely sure of keeping the plants from year to year we recommend, after they have bloomed, that the plants be cut down, lifted and stored in a cool light airy cellar or else in a cold frame, from whence they should be set out again in the spring.



Chrysanthemum (Shasta Daisy)

HARDY CHRYSANTHEMUMS (Daisy Types)

This class of perennials are real gems of the hardy order; the beautiful large flowers are produced in great numbers on long stems and fine for cutting, as they keep a long while when placed in water. The flower petals are long and snowy white with bright yellow centres; the individual blooms often measure 4 inches in diameter. This class of Chrysanthemum is absolutely hardy.

Arcticum (Arctic Daisy). This hardy perennial is a native of Alaska. It is very attractive, having pretty dark green foliage, and in September multitudes of pure white flowers, 2 to 2½ inches across, make their appearance and continue in bloom through October and November. 25c. each; \$2.50 doz.; per 100, \$17.50.

Maximum Vermoreuse. This variety has done exceptionally well with us in our Nurseries. The flowers are single, borne on stems 18 inches long and often measuring 3 inches in diameter; pure white. We can best describe it as a glorified Shasta Daisy. July to September. 25c. each; \$2.50 doz.; per 100, \$17.50.

Leucanthemum Alaska (Shasta Daisy). Pure white; yellow. 25c. each; doz., \$2.50; \$17.50 per 100.

Mixed Varieties. A mixture of the leading varieties of white sorts. 15c. each; doz., \$1.50; \$10.00 per 100.

Plants can be sent by express and freight only. No Plants sent C. O. D.

(hn)

MICHELL'S GORGEOUS HARDY DELPHINIUMS



Delphinium "King of Delphiniums"

Nassau. The flower heads appear all season uninterruptedly, the individual blooms are often 2 inches across; the shade is a clear heavenly blue. The plant grows $4\frac{1}{2}$ to 5 feet high and is very stately. 35c. each; doz., \$3.50; \$25.00 per 100.

Queen Wilhelmina. A recent introduction. The gigantic flower spikes are laden with light lavender-blue flowers, shaded rose. A distinct white eye in each floret sets it off wonderfully. 35c. each; doz., \$3.50; \$25.00 per 100.

Theodora. The flower is a real azure blue; the individual blossoms are loosely arranged on tall erect spikes; a very fine variety. 25c. each; doz., \$2.50; \$17.50 per 100.

Mitchell's New Hybrids. Mixed; see color plate opposite; these are the cream of seedlings from a famous strain of English varieties. 25c. each; doz., \$2.50.

Gold Medal Hybrids, Mixed. No finer strain has ever been produced; the plants we offer are a re-selection from a choice collection. 15c. each; doz., \$1.50; \$10.00 per 100.

Every one, who has a hardy garden or an unoccupied space in the flower border, should plant some Delphiniums. On account of the important part Hardy Larkspurs play in perennial plantings, it occurred to us that a brief treatise on their culture, which follows, might be of assistance to our customers. The plants can be set out in the spring when the ground has opened permanently. Pot-grown specimens can be successfully planted from then on up until the first of November. In view of the wonderful display that Larkspurs make, it is worth while to exercise care in locating a most suitable position and in the preparation of the ground. Latter should have a good natural drainage. Never use animal manure in planting Delphinium, unless it has been incorporated in the soil a year before planting. Pure bonemeal is the best fertilizer in promoting growth. Apply with it also some wood ashes; the latter will assist in holding in check earth grubs, which at times attack the roots and crowns of the plant. In order to keep Larkspurs in bloom continuously during the summer, cut the old flower stems off, after they have faded, and new shoots will produce flower heads successfully. To get the best out of hardy Larkspur in the way of flowers, feed them occasionally during the growing season with an application of ground bone. While it is not necessary, a slight covering of long straw or leaves over the crowns of the plants during winter will prove a great benefit. Our stock of Delphiniums is very large and embraces the very best varieties.

Amos Perry. Semi-double, rich mauve, suffused light blue, with a dark eye. 30c. each; doz., \$3.00; \$20.00 per 100.

Bella Donna. The freest and most continuous blooming of all. The clear turquoise-blue flowers are not surpassed by any. 25c. each; doz., \$2.50; \$15.00 per 100.

Belladonna Semi-Plena. The finest of all light blue Larkspurs. The majestic spikes are covered with flowers of gigantic size, the latter appearing in several rows on the stem. Planted amongst the dark blue kinds it makes a charming effect. 30c. each; doz., \$3.00; \$20.00 per 100.

Capri. The origin of this variety is from the same source as the wonderful sort Moerheimi, to which it is an elegant companion. The immense sky blue flowers are a rich attraction to any garden. Extra strong plants, 40c. each; doz., \$4.00; \$30.00 per 100.

Chinense Album. Same as below in white. 15c. each; doz., \$1.50; \$10.00 per 100.

Chinense Azureum. Plants grow but 2 feet tall, branch freely, each branch terminating with a loose spray of single flowers; color, a deep clear blue. 15c. each; doz., \$1.50; \$10.00 per 100.

Formosum. Dark blue, white centre, spikes 3 to 4 feet tall, vigorous; free blooming. 15c. each; doz., \$1.50; 100, \$10.00.

Formosum Coelestinum. Most beautiful heavenly blue, immense flowers. 15c. each; doz., \$1.50; \$10.00 per 100.

Lizzie. Fine, tall, well-branched plant; spikes of single flowers, often 2 inches across; color azure blue, with a distinct yellow eye. 35c. each; doz., \$3.50.

Persimmon. Of handsome form, with strong erect spikes of large single flowers of a lovely sky blue shade, with a creamy white eye; a real improvement on Belladonna. 35c. each; doz., \$3.50.

K. Th. Caron. Bright gentian blue, with white centre; the white eye is very prominent. 35c. each; doz., \$3.50.

King of Delphiniums. Remarkably strong, vigorous plants with flowers of gigantic size, semi-double, deep blue, white eye. 40c. each; doz., \$4.00; \$30.00 per 100.

La Martine. One of the older types of great beauty. The single, dark blue flowers are densely arranged on tall erect stems. It is one of the most decorative of the hardy Larkspur. 25c. each; doz., \$2.50; \$17.50 per 100.

Moerheimi. The first and only real pure white hardy Larkspur. It grows 3 to 4 feet high, and flowers continuously from June until autumn, and produces more spikes on a single plant than any other variety. The flowers are of the purest white. One can hardly imagine a prettier effect than large clumps of this white Delphinium intermixed with the rich shades of blue of the other sorts. Stock limited. 30c. each; doz., \$3.00; \$20.00 per 100.

Mrs. Thompson. Deep blue flowers, each with a large, white eye. It blooms with wonderful freedom and produces spikes of medium length, with dense flower heads. 25c. each; doz., \$2.50; \$17.50 per 100.

SPECIAL OFFER: 1 each of the Delphiniums on this page, 20 Plants for \$5.00

(ha)

Michell's Hardy Larkspurs

NEW HYBRID MIXTURE

From Famous
English Strains

Actual Spikes are frequently
twice as long as those shown
below (Drawn from Nature)

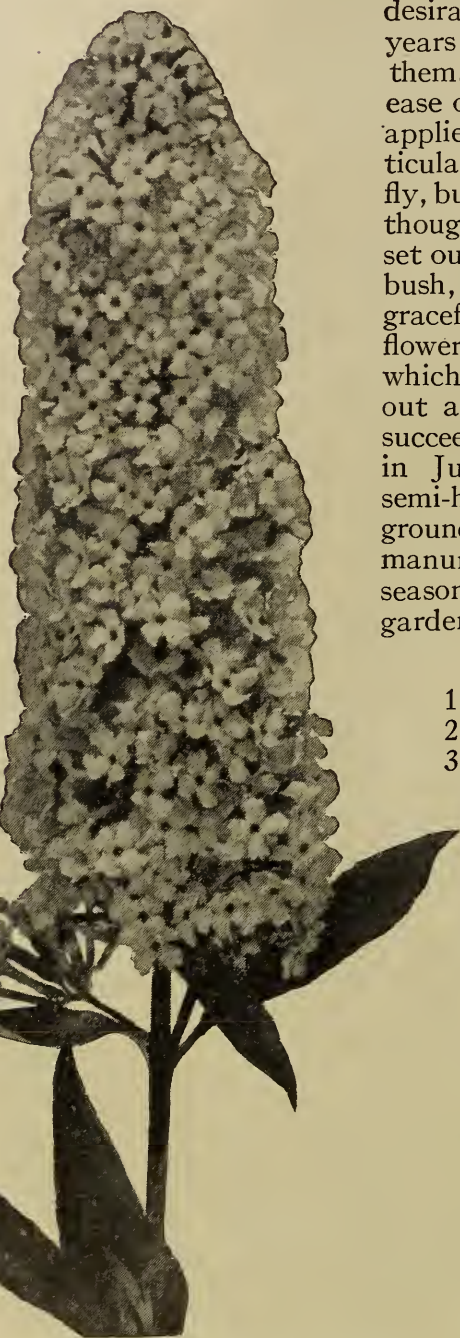


Price for strong plants, which will bloom the first season
25c. each; dozen, \$2.50; \$17.50 per 100

(OVER)

The Everblooming Butterfly Bush (Hardy)

Buddleia Variabilis Magnifica



A Single Flower Head of Butterfly Bush
(about half size)

It was a matter of some thought before we finally christened this highly desirable plant with the common English name by which it goes. Several years ago we imported from Europe some plant novelties and this was among them. We observed it carefully for a season and were charmed with its beauty, ease of culture, and free-flowering habit. The name, "Butterfly Bush," was applied to it because it seemed to attract butterflies in large numbers. Particularly we noticed that it was not the common little yellow species of butterfly, but rather the large and gorgeously colored ones that swarmed about it as though vieing with it in brilliancy of color. This shrub from a young plant set out in May will mature to full size the first season, producing a handsome bush, which the first year often attains a height of four feet. It produces long, graceful stems which terminate in tapering panicles of beautiful lilac-colored flowers that are of miniature size and borne by the hundreds on a flower-head which is frequently 10 inches long. A single plant the first season will throw out as many as 50 flower spikes, which increase greatly in number during succeeding years. The year after planting it generally commences to flower in June and continues each season until severe frosts nip it. It is rather semi-herbaceous, by which we mean in some latitudes it will die down to the ground and, while perfectly hardy, we do recommend covering the roots with manure as winter approaches, as this will produce a heavy growth the following season. This plant is very desirable as an individual specimen in the lawn and garden, or placed promiscuously in the shrubby border.

SPECIAL MERITS

1. *Very hardy.*
2. *Blooms the first season.*
3. *Flowers from early summer till frost.*
4. *Rich, striking color.*
5. *Splendid for cutting. Very free flowering.*
6. *Will thrive anywhere.*

Testimonials on Butterfly Bush

Grafton, Ill., Nov. 8th, 1915.

I bought of you last spring 4 Butterfly Bushes, and they are a wonder; they are in full bloom today. Will order more next spring.

LEO PETERSON.

Manhasset, L. I.

Your hardy Butterfly Bush is indeed a glorious plant and fully fulfills its mission as an attracter of beautiful butterflies. I have counted so many as 9 splendid specimens of different varieties at one time hovering about my small bush.

MRS. D. E. SMITH.

Ambler, Pa.

I cannot help but write a few lines in regard to your Butterfly Bush that you exploited this season. I am glad to say that this plant far exceeded my expectations even through the fact of not receiving any special care. It had proximately seventy-five blooms and all with the spikes, the size, color, and pleasing fragrance you advertised.

For a plant so small as I received from you this spring, to accomplish these results the same season, I feel is wonderful, and certainly you will gain the good will of your flower loving patrons by insisting on them all trying at least one of these plants in 1916.

DR. C. C. MEHLER.

Price of Butterfly Bush: 25c. each; dozen \$2.50; \$15.00 per 100

HENRY F. MICHELL CO., - 518 Market Street
PHILADELPHIA, PA.

Daisy (Bellis Perennis)

The English Daisy is one of the first of spring flowers, blooms at the first spell of warmth. Planted in Rose borders or bulb beds between Hyacinths and Tulips they produce a show in a place that would otherwise have a dead appearance. A combination of these with Myosotis and Pansies produce a rare treat in early spring flowers. They make a similar effect planted among late Tulips, covering the bare ground between the bulbs very effectively. We grow the Giant flowering strain and offer vigorous plants in *Monstrosa* type.

White, Pink, Red; each separate. 10c. each; doz., \$1.00; \$7.00 per 100.

Delphinium (see Page 158)

Dianthus (Garden Pinks)

They are brilliantly colored flowers, which appear in great numbers on the plant, and have a rich clove scent. For table bowls, as a cut flower, they are much in use. For edging hardy borders, garden walks, or planted in rock gardens, they fill an important place. They are at their height of bloom in June.

Deltioides (*Maiden Pink*). A continuous flowering variety with pink flowers. Especially suited for rock work.

Lactifolius Atrococcineus Fl. Pl. (*Ever-blooming Hybrid Sweet William*). A splendid variety with brilliant crimson double flowers. Flowers continuously during the entire season.

Each of the above 15c. each; doz., \$1.50; \$10.00 per 100.

Dianthus Barbatu (*Sweet William*) Mixed and Separate Colors (see Page 172)

Dictamnus (Gas Plant)

One of the hardiest of all perennials, which often will last for a generation and longer. The foliage is fragrant, while the spikes of rather oddly shaped flowers emit a luminous vapor, which is said to be inflammable. Height about 2 feet, flowering in June and July.

Caucasicus. A gigantic form, with rose pink flowers of very large size. 25c. each; doz., \$2.50; \$17.50 per 100.

Fraxinella. Rose pink flowers with dark veins.

Fraxinella Alba. Pure white.

Each of the above, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Digitalis (Foxglove)

These showy plants are but biennials (that is, live outdoors for two seasons), but can be made perennial by the following treatment: Immediately after blooming remove the flower stalk right down to the ground, also crop some of the large leaves; the result is a number of new plants start from the old crown, which produce splendid flowers the second year. Digitalis will do well in semi-shaded spots; plants grow from 4 to 6 feet high; flower in June. Especially attractive when planted in rows as a background for a perennial border.

Gloxiniaeflora White.

" Pink.

" Blue or Purple.

" Lilac.

" Mixed. All colors.

Grandiflora Yellow.

Monstrosa. Giant flowering type. All colors mixed.

Any of the above, 15c. each; doz., \$1.50; \$10.00 per 100.



Digitalis or Foxglove

Dielytra (Bleeding Heart)

Formosa. This dwarf-growing species has finely cut ornamental foliage, and produces its attractive pink flowers in great profusion from April to August; 15 inches high. 15c. each; doz., \$1.50.

Spectabilis. One of the most beautiful border and shrubby plants, with graceful, fern-like foliage and attractive heart-shaped pink and white flowers appearing in April. Large roots, 20c. each; doz., \$2.00; \$15.00 per 100.

Doronicum (Leopard's Bane)

This flowers very early in the spring; about 2 feet high. Is most effective when planted in masses. The plants can be taken up in the fall if desired (although they are perfectly hardy) and be made to bloom indoors. It is a fine cut flower, closing towards the end of the day and opening up each morning. Flowers June and July.

Clusii. Dwarf; large, soft yellow flowers; 2½ to 3 inches across.

Caucasicum. Exceptionally free bloomer, rich yellow; a vigorous grower.

Plantagineum Excelsum. Spring-flowering, robust growing variety with deep yellow flowers, appearing at intervals during the entire summer.

Price of Doronicums, 25c. each; doz., \$2.50; \$17.50 per 100.

Edelweiss (Gnaphalium)

Leontopodium Alpinum. This is a favorite Alpine plant of the Swiss Mountains, and is found growing in abundance everywhere on the Alps. The plant is dwarf, about 4 inches high, with gray foliage, which lies close to the ground, is surmounted with stalks of grayish white, fuzzy flowers of a trilobed appearance. The flowers may be cut as an everlasting, and they will keep indefinitely. This is a splendid plant for a rock garden. 25c. each; doz., \$2.50; \$17.50 per 100.

Echinops (Globe Thistle)

Handsome plants for the border or wild garden.

Ritro. A noble effective variety for shrubberies and borders, producing handsome, blue, globular flowers; valuable for cutting. 3½ feet.

Ruthenicus. Interesting and showy, solid round heads of lovely blue flowers, on branching stems. 3 feet.

Sphaerocephalus. Large, white flowers, fine for a background; plants growing 5 to 6 feet tall.

Price of any of the above Echinops, 25c. each; doz., \$2.50; \$17.50 per 100.

Epimedium (Bishop's Hat)

Dwarf plants, 8 to 10 inches high, with leathery foliage and panicles of small orchid-like flowers. They do well in semi-shade; April-May.

Alpinum. Reddish violet.

Bicolor. Red and yellow.

Niveum. Pure white.

Sulphureum. Sulphur-yellow.

Price of Epimediums, 25c. each; doz., \$2.50; \$15.00 per 100.

Eremurus

When well established these are most stately and beautiful plants. They grow 8 or 10 feet high; require a moist soil, but well drained.

Himalaicus. White.

Robustus. Peach colored.

Price of Eremurus, 85c. each; doz., \$8.50.

Erigeron (Flea Bane)

Glabellus. Handsome light blue flowers on stems about 15 to 18 inches long; June to August.

Grandiflorus Elatior. Large, bluish lilac flowers with yellow disc; 18 inches; June-July.

Intermedium. Daisy-like light pink flowers; all summer; 2 feet. 25c. each; doz., \$2.50; \$15.00 per 100.

Price of Erigerons, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Erinus

Alpinus Carmineus. A charming Alpine plant; grows in the crevices of rocks or walks; producing dainty sprays of rose-colored flowers. 15c. each; doz., \$1.50; \$10.00 per 100.

Euphorbia (Milkwort)

Cyparissias. Handsome perennial with yellow flower trusses; 12 inches high; May. 15c. each; doz., \$1.50; \$10.00 per 100.

Polychroma. This variety grows about 2 feet high, bearing masses of chrome-yellow flowers in the form of bracts. April-May. 2 feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Eryngium (Sea Holly)

An ornamental plant, 2 to 3 feet high. Especially valuable for shaded locations or wild garden effects. The flower may be cut and dried for winter bouquets; July-September.

Planum. Light blue.

Amethystinum. The finely cut foliage and the thistle-like flowers are of amethyst-blue color; highly ornamental.

Maritimum. Deeply cut pale blue foliage and flowers.

Price of the above Eryngium, 25c. each; doz., \$2.50; \$17.50 per 100.

MICHELL'S HARDY PERENNIAL PLANTS



Gaillardia

Eupatorium

This is an effective plant, which produces fuzz-like flower heads, much resembling Ageratum. Appearing from August till frost. It is fine for cutting.

Ageratoides (*White Snakeroot*). Pure white, 3 to 5 feet, flowering in August and September; a fine native plant.

Coelestinum. Light blue, flowering in August; 18 to 24 inches.

The above 15c. each; doz., \$1.50; \$10.00 per 100.

Funkia (Plantain or Day Lily)

These attractive plants make fine effects. Nothing is more handsome in a garden border or a hardy bed edged with the dwarf green and a variegated foliage of the *Media Picta* variety. If you have a shaded spot which you want to make real attractive, plant some Funkias.

Coerulea. Dark green foliage, with light blue flowers.

Lanceolata. Lilac flowers; the latest of all; flowering in September.

Minor Alba. Dwarf growing variety with white flowers. 12 inches.

Robusta Elegans Variegata. The strongest grower among the variegated varieties; large green leaves with white bands. 25c. each; \$2.50 doz.; per 100, \$15.00.

Subcordata Grandiflora. This is a large loose-growing variety, with large, light blue flowers and broad foliage.

Undulata Media Picta. Green foliage, with distinct white markings. Lavender blue flowers. This is the best of the edging varieties.

The above, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Gaillardia (Blanket Flower)

One of the most useful of the hardy flowers. When planted in clumps, beautiful flowers are borne in profusion and make a striking effect. They last a long while as a cut flower, and are abundant from June until frost. Height, about 2 ft.

Grandiflora. Dark brown centre, petals on the outer edge are yellow, and the centre is surrounded with a rich orange disk. 15c. each; doz., \$1.50; 100, \$10.00.

Galega (Goat's Rue)

The flowers, which resemble a pea blossom, are borne on long racemes in great abundance. It flowers from July until September; height, 2 feet.

Hartlandii. The best of the Galegas. Large, handsome blue and white flowers and variegated foliage. 15c. each; doz., \$1.50; \$10.00 per 100.

Gentiana (Gentian)

These are amongst the most desirable of Alpine plants and are of one of the prettiest shades of blue to be found in the garden.

Andrewsi (*Closed Gentian*). Large terminal and auxiliary clusters of blue flowers, about 2 feet high. July-August. 25c. each; doz., \$2.50; \$15.00 per 100.

Geranium (Crane's Bill)

Good summer flowering plant, suitable for rockeries. Perfectly hardy, thriving in almost any soil.

Fremonti. Rosy purple; 2 feet.

Grandiflora. Large violet blue; 1 foot.

Platypetalum. Large, rosy purple flowers; 18 inches.

Sanguineum. Bright crimson; 18 inches.

The above, 15c. each; doz., \$1.50; \$10.00 per 100.

Gerbera (Transvaal Daisy)

Jamesoni Hybrida. Strictly speaking, this might be called a tender perennial, as it requires wintering over in a cold frame. The daisy-like flowers, which cover the various colors of red, orange, yellow and pink, appear freely on low growing plants; the stems being about 18 inches long. Strong plants, mixed colors, 35c. each; doz., \$3.50.

Geum (Avens)

Bright, showy flowers, which appear in great abundance in the early summer and fall, growing about 18 inches high. Attractive in border plantings.

Coccineum. Brilliant rich scarlet. 15c. each; doz., \$1.50; \$10.00 per 100.

Mrs. Bradshaw (New). Double, bright scarlet; 18 inches. 25c. each; doz., \$2.50; \$17.50 per 100.

Gillenia (Bowman's Root)

Trifoliata. A spiraea-like plant, with thin flowered stems, graceful foliage and rosy white blooms; 2 feet high; July-August. 25c. each; doz., \$2.50; \$17.50 per 100.

Glechoma (Ground Ivy)

Variegata. Very useful variegated creeper for growing over banks or for rockeries. 10c. each; doz., \$1.00; \$7.50 per 100.

Heliopsis (Orange Sunflower)

Pitcheriana. Very similar to a small sunflower, but flowering earlier; deep golden yellow; June till frost; 3 feet high.

Pitcheriana Semi-plena. A semi-double form of above.

Scabiosa Zinniaeflora. A new double flowering form; somewhat resembling a Zinnia in shape; fine for cutting; July to August; 2 feet. 25c. each; doz., \$2.50; \$15.00 per 100.

Price of Heliopsis, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Gypsophila (Baby's Breath)

During August and September it is a mass of delicate flowers. These may be used as fresh cut flowers, also for a semi-everlasting effect. They keep perfectly for months without water.

Cerastioides. White flowers, marked pink; 3 inches. 15c. each; doz., \$1.50; \$10.00 per 100.

Paniculata. Feathery sprays of white flowers; useful for mist-like effects in bouquets. 15c. each; doz., \$1.50; \$10.00 per 100.

Paniculata flore pleno. This handsome variety produces pretty double pure white flowers. Splendid for bouquets. 25c. each; doz., \$2.50; \$17.50 per 100.

Repens. A useful plant for the rockery, with small white flowers; July-August. 15c. each; doz., \$1.50; \$10.00 per 100.

Helenium (Sneezewort)

These desirable perennials succeed in almost any soil in a sunny location. The flowers are splendid for cutting.

Autumnale Rubrum. Bright terra-cotta red; 5 feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Autumnale Superbum. Massive spreading heads of deep golden yellow flowers; August-October; 5 feet.

Cupreum. Orange crimson; 2 feet.

Grandicephalum Striatum. Deep yellow flowers striped and splashed crimson; July and August; 5 feet high.

Hoopesi. Orange yellow; large flowers often 2½ inches across; June-July; 2 feet.

Pumilum Magnificum. Golden yellow, with large and perfectly formed flowers; very free; July-August; 18 inches.

Riverton Beauty. Rich lemon-yellow with dark purple cone; 4 feet; August. 25c. each; doz., \$2.50; \$17.50 per 100.

Riverton Gem. Old gold changing to wallflower-red. 25c. each; doz., \$2.50; \$17.50 per 100.

Price of Heleniums (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Helianthus (Hardy Sunflower)

Very effective either in borders, among shrubbery or as clumps on the lawn, etc. They produce masses of flowers during summer until frost, which are splendid for cutting and decorative purposes.

Multiflorus fl. pl. Large, double golden yellow; July-August; 4 feet.

Orgyalis. Golden yellow; small flowered; long, narrow foliage; September; 5 ft.

Maximiliana. The latest of all; blooming profusely in October; the fine golden yellow flowers appear in long, graceful sprays; splendid for cutting; 5 to 7 feet.

Rigidus Miss Mellish. Semi-double flowers; 4 to 5 inches across; very long petals of golden yellow; good for cutting.

Rigidus (*The Prairie Sunflower*). Flowers golden yellow, smaller than Miss Mellish, but a very useful variety; July till autumn; 5 feet.

Wooley Dod. An entirely distinct variety, golden yellow, semi-double; especially suited for planting on a large scale in shrubberies and borders; 4 feet; September.

Price of the above Helianthus, 15c. each; doz., \$1.50; \$10.00 per 100.



A charming effect. Hardy Ornamental Grasses and Hardy Ferns planted in groups.

HARDY FERNS

Many persons are perplexed to know what is best suited for planting in densely shaded borders, particularly around porches. Nothing in the world produces such a permanent and satisfactory effect as Ferns. The graceful plants grow on an average from 1 to 2 feet high, according to the variety, and the clumps increase in size and beauty each year. They die down in the winter and break forth again in May. They require absolutely no attention after they are planted. In the variety at command very interesting plantings and effects can be made.

Adiantum Pedatum (*Hardy Maiden Hair Fern*). 12 inches.
Aspidium Acrostichoides (*Wood Fern*). Height 15 inches.
Asplenium Craigii Laciniatum. 15 to 18 inches high.

Aspidium Cristatum (*Crested Fern*). 15 to 18 inches.
Asplenium Felix-foemina. Height, 12 to 15 inches.
Aspidium Thelypteris. 15 to 18 inches.
Dicksonia Punctilobula (*Gossamer Fern*). Height, 24 inches.
Lastrea Dilatata. Height, 24 inches.
Onoclea Sensibilis (*Sensitive Fern*). 12 to 15 inches.
Onoclea Struthiopteris (*Ostrich Fern*). 24 to 30 inches.
Osmunda Polystriatum. 15 to 18 inches high.
Osmunda Polystriatum Setosum. 24 to 30 inches high.
Osmundi Cinnamomae (*Cinnamon Fern*). 24 to 36 inches.
Osmundi Claytonia (*Flowering Fern*). Height, 24 inches.
Osmundi Gracilis. 24 to 30 inches.
Osmundi Regalis (*Royal Fern*). Height, 24 inches.

All ferns strong plants, 20c. each; doz., \$2.00; \$15.00 per 100.

ORNAMENTAL HARDY GRASSES

The generous beautiful effect produced by the hardy Grasses is hard to describe. Plantings must be seen to be appreciated. The best results are attained if planted as individual specimens on the lawn or in large beds. They should not be placed in conjunction with other perennials, being a class by themselves.

Arundo Donax (*Giant Reed*). Tall variety with bluish-green foliage, frequently attaining a height of 20 feet.
Arundo Donax Fol. Variegatis. This variety of Giant Reed has variegated foliage. 35c. each; doz., \$3.50.
Erianthus Ravennae (*Plume Grass or Hardy Pampas*). Deep green narrow foliage, growing about 10 feet high.
Eulalia Gracillima Univittata (*Japan Rush*). Graceful narrow foliage, growing 5 to 6 feet. Green, with silvery rib.
Eulalia Japonica Variegata. An attractive kind with a variation of markings of white, green, sometimes light pink and yellow; 4 to 5 feet high.
Eulalia Japonica. Like the variegated variety, except that it is entirely green.

Eulalia Japonica Zebrina. Dark green foliage, is crossmarked horizontally a golden yellow. It is one of the best of hardy Grasses for effect. 4 to 5 feet high.

Gynerium Argenteum (*Pampas Grass*). This variety in severe climates requires light protection in winter. The silvery flower plumes are indeed handsome. It varies in height from 7 to 10 feet.

Phalaris Arundinacea Variegata (*Variegated Ribbon Grass or Gardener's Garter*). This sort is especially suited for edging taller varieties, as it grows somewhat dwarf. The foliage is somewhat broad, variegated white and green. 15c. each; \$1.50 per dozen; per 100, \$10.00.

Pennisetum Japonicum (*Hardy Fountain Grass*). One of the most valuable hardy Grasses, either for beds, mixed borders or as individual specimens. Height 4 feet.

Elymus Glaucus (*Blue Line Grass*). A graceful growing type with narrow silvery blue foliage, a dwarf compact grower; suitable for edging tall kinds. Height, 3 feet.

Strong plants of the above hardy Grasses, except where noted, 25c. each; dozen, \$2.50; \$15.00 per 100.

Stronger clumps for immediate effects, 50c. each; dozen, \$5.00; \$30.00 per 100.

MICHELL'S HARDY PERENNIAL PLANTS

Hemerocallis (Yellow Day Lily)

Lily-like plants, flowering in great profusion during the summer.

Aurantiaca. Large, trumpet-shaped, orange yellow flowers; reverse of petals bright Indian yellow; sweet scented. 25c. each; doz., \$2.50; \$17.50 per 100.

Aurantiaca Major. Large, orange flowers; one of the best sorts; June-July. 25c. each; doz., \$2.50; \$17.50 per 100.

Dr. Regal. One of the finest of the late flowering sorts, producing beautiful rich apricot-colored flowers; 2½ feet. 25c. each; doz., \$2.50; \$17.50 per 100.

Dumortieri. Very dwarf, flowering in June; earlier than most other sorts of the better class. Rich yellow flowers; bronze shaded on the back of petals. 20c. each; doz., \$2.00; \$15.00 per 100.

Flava. Light yellow flowers, very fragrant; June and July; 3 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Florham. A strong grower; 3 to 3½ ft. high; large trumpet-shaped flowers; rich golden yellow with Indian yellow markings; June-July. 25c. each; doz., \$2.50; \$17.50 per 100.

Fulva. Trumpet-shaped flowers, orange colored shaded darker, blooms in June and July; 4 to 5 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Kwanso Flore Pleno (Double). Coppery red; July; 3 feet high. 15c. each; doz., \$1.50; \$10.00 per 100.

Queen of May. A splendid new variety, attaining a height of 5 feet; its spikes are terminated with from 12 to 18 flowers of a rich Indian yellow color; May to July. 30c. each; doz., \$3.00.

Sovereign. Chrome yellow flowers, sometimes 6 to 9 on a stem; very handsome; 2½ feet high. 35c. each; doz., \$3.50; \$25.00 per 100.

Hesperis (Rocket)

Matronalis. Bushy plants; 3 to 4 feet high, with showy spikes of pink flowers during June and July. 15c. each; doz., \$1.50; \$10.00 per 100.

Hepatica (Liver Leaf)

Triloba. An interesting spring flowering plant, with pretty foliage and beautiful flowers. 15c. each; doz., \$1.50; \$10.00 per 100.

Heuchera (Alum Root)

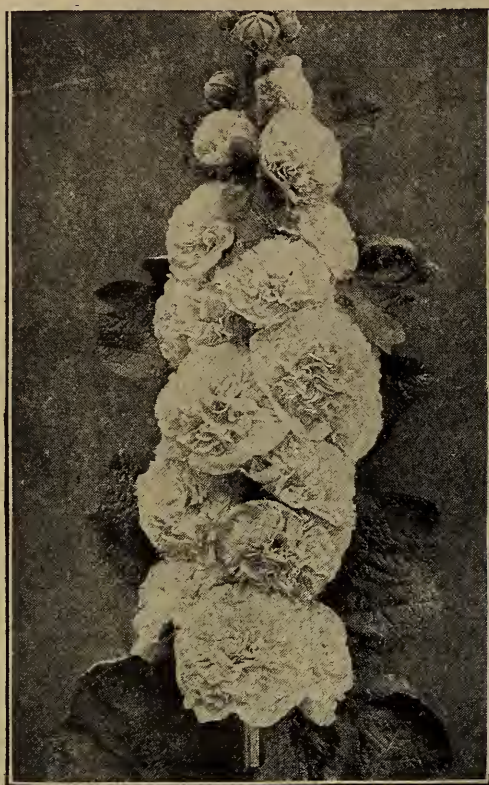
Desirable dwarf plant of easy culture. Foliage remains close to the ground. During July and August the graceful thin flower-spikes, 2 feet high, appear in profusion.

Rosea. Light rose; 2 feet.

Sanguinea. Bright scarlet.

Sanguinea Alba. Creamy white; 2 feet. Price of any of the above, 20c. each; doz., \$2.00; \$15.00 per 100.

Special Notice.—We have just compiled, at great expense, a publication, entitled "Hardy Perennials and How to Grow Them." A copy is yours for the asking.



Hollyhocks

Hibiscus (Mallow)

Crimson Eye. Immense blooms of purest white with deep crimson eye. July; 4 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Moscheutos Roseus. Large bell-shaped flowers of delicate pink. 15c. each; doz., \$1.50; \$10.00 per 100.

New Giant Flowering. A wonderful improved form of our greatly admired Marsh Mallows. They are unusually attractive and form real show plants during their flowering season. They attain a height of 6 to 7 feet, have beautiful lacinated foliage and monstrous flowers, measuring often 6 to 8 inches in diameter. We offer these in three separate colors. *Pink, White, Red.* 25c. each; doz., \$2.50; \$17.50 per 100.

Hieracium (Hawkweed)

Aurantiacum. Splendid for rockeries; deep orange; 12 to 18 inches. 15c. each; doz., \$1.50; \$10.00 per 100.

Hollyhocks

These thrive best in soil that is not too wet; which should be enriched with well-rotted stable or sheep manure. While perfectly hardy, we recommend protecting them slightly during the winter, with leaves, long manure or straw. To guard against fungus or rust we recommend spraying the plant in early spring with Pyrox or Bordeaux Mixture.

Double Canary Yellow.

Double Crimson.

Double Maroon.

Double Newport Pink.

Double Pink.

Double Salmon Pink.

Double White.

Separate colors. Hollyhocks as above, 20c. each; doz., \$2.00; \$15.00 per 100.

Double Mixed, Single Mixed, Allegheny Fringed Mixed. Mixed Hollyhocks, as above, 20c. each; doz., \$2.00; 100, \$15.00.

Honeysuckle (See Page 176)

Hop Vine (See Page 176)

Hydrangeas (See Page 136)

Hydrangeas (Climbing) (See Page 177)

Hypericum (St. John's Wort)

Adpressum. Very useful for covering ground in damp places; 6 to 8 inches high. 15c. each; doz., \$1.50; \$10.00 per 100.

Moserianum. A very free-flowering plant for the hardy border; the large flowers, often measuring 2 to 2½ inches across, are of a rich golden yellow color; blooms continuously during the summer; 2 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Iberis (Hardy Candytuft)

The Hardy Candytufts are low-growing plants, with evergreen foliage. In spring and early summer they are completely covered with dense heads of pure white flowers. For borders and rockeries they are unsurpassed.

Sempervirens. Pure white flowers.

Sempervirens Snowflake. An improved form of the above.

Price of Iberis, 15c. each; doz., \$1.50; \$10.00 per 100.

Incarvillea (Hardy Gloxinia)

These tuberous rooted plants produce large trumpet-shaped flowers in clusters; they require a slight protection in winter of leaves, straw or long manure; May and June.

Delavayi. One of the prettiest perennials. It produces large flowers of a deep pink, much resembling a Gloxinia, on stems 18 inches long, and succeeds in either sun or shade. 15c. each; doz., \$1.50; \$10.00 per 100.

Grandiflora. A great improvement on the older variety, the flowers being larger and much brighter. 25c. each; doz., \$2.50; \$17.50 per 100.

Inula (Flea Bane)

Ensifolia. Dwarf, excellent for borders. Golden yellow; July and August.

Glandulosa Grandiflora. A very showy plant with numerous bright golden flowers on long leafy stems; 2 feet; June-August.

Royleana. Large, handsome, deep yellow flowers; 1½ feet; June-August.

Price of above Inulas, 15c. each; doz., \$1.50; \$10.00 per 100.

Ipomea (See Page 176)

Iris (See Pages 164 and 165)

Ivy (English) (See Page 175)

Kudzu Vine (Pueraria) (See Page 176)

Lathyrus (Hardy Sweet Peas)

They resemble in every respect a sturdy Sweet Pea. The flowers are produced in dense clusters on a single stem, but of course, lack the fragrance of the Annual Sweet Peas. They make a splendid show, planted against trellis, lattice or individual posts.

Latifolius Albus. Pure white.

Latifolius White Pearl. Giant-flowering; pure white. 30c. each; doz., \$3.00.

Latifolius Pink Beauty. Brilliant rose. Price of Lathyrus (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Lavendula (Lavender)

Vera. A most valuable perennial, producing large sweet-scented flowers in unlimited abundance. 15c. each; doz., \$1.50; \$10.00 per 100.

Liatris (Blazing Star)

Tall flower spikes which loom up over the majority of other perennials; July till September. Very desirable for table decorations.

Pycnostachia. Light rosy purple; 4 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Scariosa. Deep purple; 3 to 4 feet high. 15c. each; doz., \$1.50; \$10.00 per 100.

Lilies (Hardy) (See Page 127)

Linum (Flax)

Perenne. A useful plant for the border or rockery. Graceful foliage, blue flowers; 3 feet.

Perenne Alba. A white flowered form of the above.

Price of Linum, 15c. each; doz., \$1.50; \$10.00 per 100.

Lily of the Valley

For outdoor planting in shaded places this plant occupies a unique position. It increases in number each year. Pure white flower bells appear on stems about 8 to 10 inches long in the latter part of May. For outdoor planting the large clumps are best. 25c. each; doz., \$2.50; \$18.00 per 100. Stock cannot be shipped after May 15th.

Lobelia

Cardinalis (Cardinal Flower). Makes a most delightful showing if planted in front of shrubbery or in the herbaceous border; flowers are a vivid crimson on spikes from 2 to 4 feet high; July-August.

Syphilitica Hybrida. Blue and white flowers, produced on long spikes; 2 feet; August-September.

Either of the above Lobelias, 15c. each; doz., \$1.50; \$10.00 per 100.

Lysimachia

Chlethroides. An ornamental plant for the hardy border, with a great number of white arched flower spikes. 3 feet high; July-September. 15c. each; doz., \$1.50; \$10.00 per 100.

Nummularia (Creeping Jenny or Moneywort). Excellent for planting under trees or shrubs, where grass will not grow. It forms a dense carpet. 15c. each; doz., \$1.50; \$10.00 per 100.

Lythrum (Loose Strife)

Succeeds in most any locality. It is a rank grower, throwing out flower spikes which are 3 to 4 feet high; flowering from July until September.

Alatum. Purplish rose; very free bloomer; 3 ft.; July-September. 25c. each; doz., \$2.50; \$17.50 per 100.

Roseum Superbum. Rich rose pink. 15c. each; doz., \$1.50; \$10.00 per 100.

Brightness. Bright pink; tall erect spikes. 25c. each; doz., \$2.50; \$17.50 per 100.

Rose Queen. An improvement of the Roseum Superbum, with larger flowers and longer spikes. 25c. each; doz., \$2.50; \$17.50 per 100.

Lychnis (Campion)

Of easy culture, making large bushy plants, all of them showy, when in bloom. These flower all summer except where noted.

Chalcedonica. Heads of brilliant orange scarlet; 2 feet high.

Chalcedonica Alba. White; 2 feet high.

Chalcedonica Carne. Flesh-colored heads; 2 feet.

Haageana Hybrida. Brilliant shades of orange and scarlet, blooming in May and June; height, 12 inches.

Vespertina Double White. Large double white flowers; very showy, blooms all summer. 25c. each; doz., \$2.50.

Viscaria (Ragged Robin, London Pride). Double red flowers on stalks 15 inches high, very showy; June.

Price of any of the above Lychnis (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Lupinus (Lupins)

They flower in May and June; 3 to 4 feet high. In dry weather water liberally.

Polyphyllus. Blue. 25c. each; doz., \$2.50; \$17.50 per 100.

Polyphyllus. White. 25c. each; doz., \$2.50; \$17.50 per 100.

Moerheimi. A new variety, with gigantic flower spikes, which are a combination of pure pink in light and dark shades. 35c. each; doz., \$3.50.

Arboreus Somerset (Tree Lupin). An entirely distinct variety; splendid for cutting and for borders. Grows in a fine bush form and is literally covered with spikes of soft yellow flowers; about 4 feet high. July-August. 35c. each; doz., \$3.50.

Madeira Vines (See Page 177)

Matricaria (Feverfew)

Little Gem. One of the best perennials for cutting, being literally smothered with large button-like pure white flowers, borne in sprays during the entire summer and autumn. Plants, 18 inches high. This is a wonderfully fine plant and should be planted liberally. 15c. each; doz., \$1.50; \$10.00 per 100.

Mertensia (Blue Bells)

Virginica. An interesting native plant, with handsome light blue flowers, which appear in May and June. Height, 1 to 1½ feet high. 15c. each; doz., \$1.50; \$10.00 per 100.

Monarda (Bergamot)

Showy plants, 2 to 3 feet high, succeeding in any soil or location, flowering during July and August.

Didyma Cambridge Scarlet (Oswego Tea). Brilliant scarlet.

Didyma Salmoinea. Salmon rose. 25c. each; doz., \$2.50; \$17.50 per 100.

Didyma Violacea Superba. Bright amaranth red.

Didyma Rosea (Bee Balm). Pink.

Fistulosa Alba. Very showy plant with white flower heads; 2 to 3 feet; July-August.

Price of the above, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Moon Vines (See Page 176)



Helium (See page 161)

Montbretia (Bulbs)

A beautiful flowering bulb resembling a miniature Gladiolus, absolutely hardy, and only effective if planted in masses from 50 to 100 bulbs in a clump.

Crocsmiaeflora Type. Scarlet and yellow.

Crocsmiaeflora Aurantiaca. Deep golden yellow.

Crocsmiaeflora Etoile de Feu. Vermilion with yellow centre.

Crocsmiaeflora Pottsii. Large, orange scarlet.

Crocsmiaeflora Speciosa. Golden yellow.

Crocsmiaeflora Rayon d'Or. Light yellow, spotted brown.

Any of the above varieties, 3c. each; doz., 30c.; 100, \$2.25; 1000, \$17.50.

Myosotis (Forget-Me-Not)

These are most effective when intermingled with Pansies, English Daisies or amongst summer-flowering perennials. They bloom usually about the middle of April, and last well into the summer. In extremely severe climates a little covering of straw or manure over the plants will prove beneficial.

Alpestris Victoria. A grand variety, with fine heads of clear azure blue flowers; bushy and compact, a fine edging plant.

Alpestris Grandiflora. Of strong, sturdy growth; about 10 inches high, with fine heads of clear forget-me-not blue flowers.

Dissitiflora. Dwarf and compact, with sprays of large, exquisite blue flowers; fine for planting among spring-flowering bulbs.

Palustris Semperflorens. An attractive hardy variety; fine for cut-flower purposes; delicate blue.

Price of any of the Myosotis, 10c. each; doz., \$1.00; \$7.00 per 100.

Nierembergia (Cup Flower)

Rivularis. A handsome Alpine plant of creeping habit; very valuable for rockery. Creamy white, cup shaped flowers appear in profusion from June until September. 15c. each; doz., \$1.50; \$10.00 per 100.

Michell's German Iris (Fleur de Lis)

No garden or perennial border is complete without a planting of German Iris; they thrive most anywhere, being absolutely hardy under most all conditions. In May, when the majority of perennials have not come into bloom yet, the Iris Germanica comes out in its full beauty. Our list, which has been kept up-to-date, has been augmented further with the addition of some very fine new sorts. We grow these in very large quantities. German or "Flag Iris" thrive best in a high, dry soil; when planting observe that the growing part of the crown protrudes from the soil, and only when established should this be covered entirely; most effective when planted in masses either in the hardy border in front of shrubbery or in beds.



A border of German Iris in the spring adds life and charm to the garden

- Eldorado.** Standards yellowish bronze, shaded heliotrope. Fall bright violet purple touched with bronze yellow. 25c. each; doz., \$2.50; \$15.00 per 100.
- Hector.** Standards yellow, with brownish red falls; dashed purple; a unique combination. 25c. each; doz., \$2.50; \$15.00 per 100.
- Laura.** Standards lavender, shaded white. Fall rich velvety purple. 25c. each; doz., \$2.50; \$15.00 per 100.
- Loute.** Standards lilac. Falls brown violet. 25c. each; doz., \$2.50; \$15.00 per 100.
- Mrs. George Darwin.** A lovely new hybrid; white standards; the upper part of the fall drops gracefully; shaded violet and gold. 25c. each; doz., \$2.50; \$15.00 per 100.
- Mrs. H. Darwin.** White standards; violet blue falls, which are turned over in graceful fashion. 15c. each; doz., \$1.50; \$10.00 per 100.
- Mrs. Neubronner.** Very deep golden yellow. 25c. each; doz., \$2.50; \$15.00 per 100.
- Pallida Mandraliscae.** Beautiful rich lavender purple; very large handsome flower. 25c. each; doz., \$2.50; \$15.00 per 100.
- Florentina Alba.** Very free blooming white; massing in well with the blues. 25c. each; doz., \$2.50; \$15.00 per 100.
- Eugene Sue.** Creamy white, spotted and striped purple.
- Gypsie Queen.** Lavender-bronze, veined white.
- Gloire de Hillegom.** Light blue; very fine large flower.
- Grachus.** Crimson and white, a unique combination.
- Honorabilis.** Golden yellow, shaded rich bronze.
- Innocenza.** Pure white; very beautiful.
- Kharput.** Deep pure blue.
- Leonidas.** Clear mauve, changing to rosy mauve; very large.
- Maori King.** Rich golden yellow. 25c. each; doz., \$2.50.
- Mad. Chereau.** White, edged blue; one of the best.
- Pallida Dalmatica.** Delicate lavender. 25c. each; doz., \$2.50.
- Queen of May.** Light pink; very early.
- Mixed Varieties.** All colors. 10c. each; doz., \$1.00; \$6.00 per 100.
- Price of any of the above German Iris (except where noted), extra strong roots, 15c. each; doz., \$1.50; \$10.00 per 100.



Iris Pumila

See Description and Prices on opposite Page

Michell's Book on "Hardy Perennials and How to Grow Them," compiled by an expert in hardy plants, contains 48 pages brimful of useful information on these popular subjects, offers suggestions as to the best kinds to plant under various conditions, gives plans for hardy borders, etc. **Mailed free.** Ask for a copy.



Type of *Iris Kaempferi*

IRIS KAEMPFERI (Japanese Iris)

The King of all Iris, covering a wide range of color; named sorts can be selected to cover a flowering period of 5 weeks, from the middle of June into July. The flowers, many of them when spread, measure 12 inches across. While they succeed generally in all soils, they delight and thrive best in a deep, rich location.

The names being rather awkward, we have arranged them under number so they can be ordered more readily.

Mixed, all colors, large roots. 15c. each; doz., \$1.50; \$10.00 per 100.

No.

Double Varieties.

- 1 **Yomo-No-Umi.** Early double pure white.
- 2 **Koki-No-Iro.** Rich purple, veined white.
- 3 **Kuma Funjiu.** A silver shade, bordered lilac, veined white.
- 4 **Uchu.** Rich purple with crimson shading.
- 5 **Renjo-No-Toma.** Fluted petals of light violet, white centre, with light veinings.
- 6 **Wakamurasaki.** Purplish crimson, dark centre shaded lilac.
- 7 **Hodai.** Delicate lavender, veined with deep purple.
- 8 **Mana-Dsura.** A splendid late pure white.
- 9 **Ho-O-Jo.** Deep purple, with a velvety crimson sheen.
- 10 **Geishoi.** Brilliant crimson purple, elegantly veined white.
- 11 **Kan-Ran.** Pure white, with rich veinings of deep violet.

Single Varieties

- 12 **Tora-Odori.** Delicate lavender on white ground.
- 13 **Osakazuki.** Delicate mauve, shaded lilac.
- 14 **Komanyo.** Rich violet-blue, marked and veined white.
- 15 **Yomo-Zakuru.** Veins of deep purplish red on light ground.

Price of any of the above-named sorts, in strong roots, 25c. each; doz., \$2.50; \$15.00 per 100.



IRIS PUMILA

The first of the Iris to bloom resembling in appearance the German variety; the plants are 6 inches high and are ideal when used as an edging for taller varieties or in borders or rockeries; they delight in a fairly dry, high situation, and once planted will increase in numbers.

Violacea. Dark blue.

Die Braut. White.

Lutea. Yellow.

Price of any of the above Iris Pumilas, 15c. each; doz., \$1.50; \$10.00 per 100.

IRIS INTERMEDIA

An entirely distinct type, being a cross between a German Iris and a shrubby Iris, known as the Pumila type. It is medium early to bloom, flowering in between Iris Pumila and Iris Germanica. Plants grow about 18 inches high and are surmounted with large flower heads, on spikes, which grow well above the foliage; appearing in May.

Ceres. Standards and fall pearl white; orange beard.

Charmant. Standards, silvery white; pearl falls, with deep blue markings.

Walhalla. Standards, light blue, violet blue falls; yellow beard.

Price of the above, 30c. each; doz., \$3.00.

IRIS SIBIRICA

One of the most elegant of all the Iris groups and among the easiest to grow, has grassy foliage with tall stems, very floriferous and one of the best for cutting.

Orientalis, Blue King. One of the most beautiful flowers, very large, rich deep purple. 15c. each; doz., \$1.50; \$10.00 per 100.

Orientalis, Snow Queen. A new white-flowered variety of the type; petals broad and full, of snowy whiteness, and with rich golden yellow blotches. 15c. each; doz., \$1.50; \$10.00 per 100.

Orientalis, Distinction. Standards violet blue; falls white, veined and tipped blue. 25c. each; doz., \$2.50; \$15.00 per 100.

Orientalis, Geo. Wallace. Standards azure blue, with azure blue falls with white markings. 25c. each; doz., \$2.50; \$15.00 per 100.



Iris Intermedia "Walhalla"

Plants can be shipped best by express. No Plants sent C. O. D.

(hn)



This "Queen of Spring" holds a place entirely her own in effective gardens. The exquisite form, the delicate and rich colors, its value for garden or house decoration, and the delightful fragrance are all points in its favor. No disease or insect ever troubles this plant. The best effect of Paeonies is attainable when massed by themselves in groups on lawns or borders with a distinct background of shrubbery. They delight in a sunny location in deep rich soil. After planting take care to see they are watered regularly until you feel they are established. At blooming time the size and quality of flower are greatly increased, if the plants are watered in ab ence of occasional rains. In planting always take care to see that the crown or top of root is not more than 1 to 2 inches below the surface when covered. The roots are perfectly hardy and once planted remain for years, increasing in size. Root can be delivered beginning in April or in the autumn beginning in September.

Attention is called particularly to our revised list of named varieties, which includes the very finest sorts. The day of the common garden paeony is about over, the improved named sorts, which cover every imaginable shade of color, being sought after instead. We send out only extra strong roots.

PINK SHADES

Achille. Beautiful shell-pink, changing to lilac white; splendid variety. Early.....	Each	Doz.	Eugenie Verdier. Giant globe-shaped flower of a soft pink color. Mid-season.....	Each	Doz.
Beaute Francaise. Lilac-rose, with a cream white collar; very fragrant. Mid-season.....	\$0.25	\$2.50	Faust. Delicate flesh pink, with salmon centre. Mid-season	\$0.50	\$5.00
Berlioz. Perfect form. Large magenta rose color; silver tipped. Late .....	.35	3.50	Grandiflora Rosea. Full globe-shaped flower, light solferino red petals, salmon centre. Mid-season .....	.25	2.50
Dr. Bretonneau. Lilac rose, with cream white centre, flecked crimson. Mid-season.....	.35	3.50	L'Indispensable. Perfect shaped flower of a delicate creamy color, shaded pink. Mid-season...	.30	3.00
Carnea Elegans. Of a clear flesh color, glossy reflex. A free bloomer. Mid-season .....	.30	3.00	Lady Bramwell. Delicate silvery pink. Mid-season .....	.50	5.00
Charlemagne. Excellent variety. Lilac white, with a light pink centre. Fragrant. Late.....	.25	2.50	Mme. Forel. Late desirable sort. Very large compact flowers of a beautiful shade of light pink, with a silvery tipped centre. Late.....	.25	2.50
Clarisse. Beautiful rose pink, with silvery pink centre; fine form and habit. Mid-season.....	.50	5.00	Mons. Krelage. Grand flowers of a dark pink color. Large and compact. Late.....	.50	5.00
Delicatissima. Pale lilac rose, free habit; fragrant. Mid-season .....	.25	2.50	Marie Lemoine. Very large, compact flower of lasting qualities. Delicate white rose, with a creamy centre .....	.50	5.00
Duc de Cazes. Bright pink, silvery reflex. Early.	.30	3.00	Mme. Leonie Calot. Delicate rosy white, centre petals slightly tipped carmine. Mid-season....	.50	5.00
Edulis Superba. Beautiful shaped flower of a bright mauve pink color, with narrow edges of lilac. One of the best early sorts.....	.25	2.50			

We send out Extra Large Paeony Roots (ha)



Paeony Candidissima

WHITE AND LIGHT SHADES

	Each	Doz.
Agnes Mary Kelway. The outer large petals are white tinted rose, while the centre is a cream shade; a very striking flower. Early.....	\$0.25	\$2.50
Alba Plena. A giant flower of the purest white; very double. Of superb fragrance. Mid-season.	.25	2.50
Candidissima. Creamy white, with a clear, sulphur-yellow centre, which shows an occasional slight tint of flesh pink. Early.....	30	3.00
Couronne d'Or. Immense, very full, ball-shaped form; color, snowy white with yellow reflex and deep pink edges on a few petals. Late.....	.50	5.00
Duc de Wellington. Large, sulphur-white flower of great fragrance and with long stems. Late..	.35	3.50
Duchesse de Nemours. Pure white, with a sulphur white centre; very early and extra fine. Early..	.30	3.00
Festiva Maxima. Beautifully shaped flower, 7 to 8 in. in diameter. Pure white, splashed red. Late.	.40	4.00
La Rosiere. Imbricated petals of yellowish white with straw yellow centre. Mid-season.....	.35	3.50
Queen Victoria. Pure white; cream centre. Mid-season .....	.25	2.50
Zoe Calot. Pure white; suffused rose. Mid-season	.25	2.50
RED AND DARK SHADES		
Anemoneflora Rubra. Anemone form, having a broad collar; a beautiful dark crimson. Mid-season .....	.30	3.00
Delachi. Large flowers of a deep purple color, free bloomer. Late.....	.30	3.00
Felix Crousse. Large bright red flowers on long stems. Extra fine, self-colored variety. Mid-season .....	.50	5.00
General MacMahon. Large anemone-shaped flower of a deep violet color. Magnificent variety. Mid-season .....	.50	5.00
L'Eclatante. Large globular flower of brilliant red color; very good variety. Mid-season.....	.25	2.50
Louis Van Houtte. A rich shade of crimson maroon, an exceptionally fine large flower. Late..	.30	3.00
Meissonier. Loose reddish purple flowers on tall stems. Very fragrant. Very good variety. Mid-season .....	.35	3.50
Victor Hugo. One of the very best of red paeonies. Brilliant carmine red. Unsurpassed for cutting. Late .....	.50	5.00

PAEONY CHINENSIS

This is the common garden variety in cultivation most everywhere.

	Each	Doz.	100
Double Red. Large roots	\$0.25	\$2.50	\$15.00
Double White. Large roots .....	.25	2.50	15.00
Double Pink. Large roots .....	.25	2.50	15.00

PAEONY OFFICINALIS (The old fashioned Paeony)

Fragrant flowers of immense size, flowering early in May and having a distinct foliage and growth.

	Each	Doz.	100
Rosea. Double pink	\$0.30	\$3.00	\$20.00
Rubra. Double red .....	.30	3.00	20.00
Alba. Double white .....	.30	3.00	20.00

One each of the above 3 colors for 75c.



Tree Paeony Lambertiana

DOUBLE TREE PAEONIES

These very beautiful and free-flowering paeonies deserve to be included in every collection. They are from 2 to 3 weeks earlier than any other variety and the flowers, often measuring a foot in diameter, include every shade from white and softest pink to the most brilliant scarlet and purple.

Abraham Lincoln. Deep velvety amaranth; very double.
Confucius. A beautiful shade of purplish scarlet, single.
Jeanne d'Arc. Very large, salmon rose with dark centre, single.
Bijou de Chusan. Pure white, yellow centre, semi-double.
Etna. Brilliant fiery red.

Lambertiana. Pure white, suffused with delicate rose.
Louise Mouchelet. Beautiful silvery rose; extra large flower, double.

Queen of Belgiums. Blush shaded salmon rose. Splendid sort.

Beauty de Cologne. Salmon rose, suffused flesh colored.
Rosea Superba. Salmon rose; semi-double. Beautiful.

Any of the above varieties; extra strong plants, \$1.00 each; per doz., \$11.00; (or 1 each of the above varieties for \$9.00).

PAEONIA TENUIFOLIA Flore Plena

An early flowering species with fern-like foliage and double deep crimson flowers, a shade like the Jacq Rose; this is undoubtedly one of the most attractive paeonies in cultivation, excellent for massing or planting individually in the herbaceous border, blooming very early in May, sometimes latter part of April, makes an exceedingly attractive plant. Each, 30c.; per doz., \$3.00; \$20.00 per 100.

Paeony Culture is fully covered by **Michell's Bulb Growing Guide**. Ask for a free copy.

For other Paeonies, see page 75.

Watch for the announcement of our annual Paeony Show in June

168 **Michell's Superb Hardy Phloxes of Recent Introduction**

The most effective border plants during August and September. They succeed in almost any soil enriched with manure. In partial shade the flowers last much longer than when grown in the full sun. If the first spikes of bloom are removed as soon as over, and the plants given a good soaking of water, they will produce a second supply of flowers, thus continuing until late in autumn. The varieties, we offer, represent the finest of the existing Hardy Phloxes.

Crepuscle (New). Very large flowers, shading from a deep crimson centre, through rose lilac to a white edge; a beautiful blending of colors. 25c. each; doz., \$2.50; 100, \$17.50.

Electra. One of the best of the newer varieties, color a brilliant red with a darker shade; very large trusses; distinct. 50c. each; doz., \$5.00.

Europa. Blush white, with a large deep pink centre, making it a very showy combination. Very new and the best in its class; the flower truss is very large, while the florets are also of gigantic size. 15c. each; doz., \$1.50; \$10.00 per 100.

Frau Anton Buchner. Very large pure white flower truss with gigantic individual florets. It makes a fine edging for a bed of Hardy Phlox, being of a very dwarf nature. 25c. each; \$2.50 doz.; \$17.50 per 100.

Gefion. A beautiful variety; a lovely peach blossom pink, with a distinct bright rose eye; large trusses on strong erect stems; one of the most effective. 30c. each; doz., \$3.00.

Grideur. Soft mauve rose, shaded cerise pink; very beautiful. 25c. each; doz., \$2.50; \$17.50 per 100.

Iris. This is a variety of rare merit and whether grown in masses or as a single specimen, the color will immediately arrest the eye. It is a deep reddish violet, of compact erect habit with flower trusses that rival any others for size. 25c. each; doz., \$2.50; \$17.50 per 100.

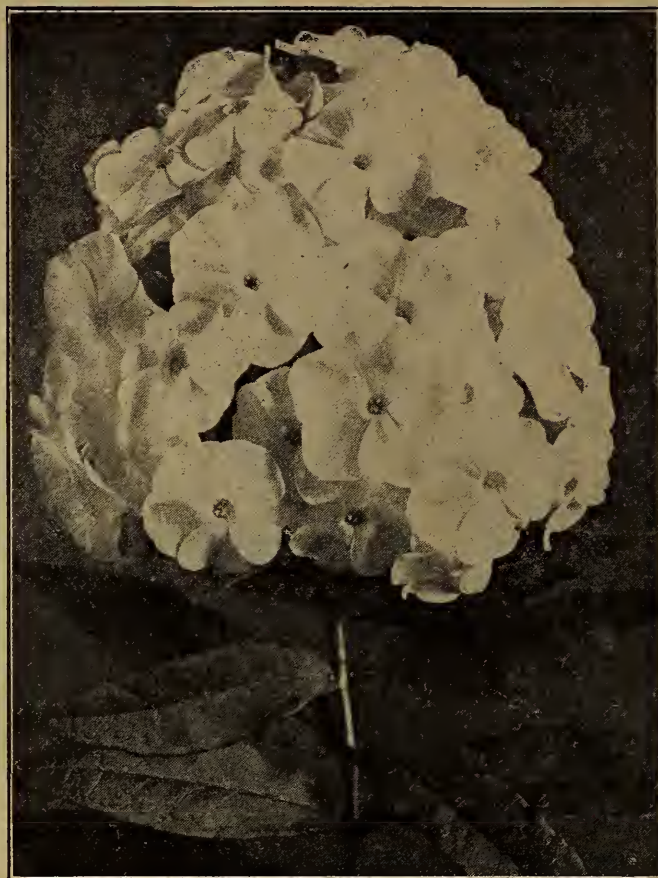
Loki. A splendid salmon-pink, with a carmine eye; a shade darker than Elizabeth Campbell. 30c. each; doz., \$3.00.

Linfield Beauty. For the present this may safely be regarded as the salmon pink Phlox of the future. We cannot describe it better than to say, it is an improved variety of Elizabeth Campbell. The flowers, though, are of heavier texture than the latter and it keeps its color remarkably well during hot weather; in fact, at our Nurseries, we observed last summer, that the dryer and hotter the weather, the more intense seemed the color of this Phlox. It begins to flower early and lasts late into the summer, and all who have seen it at our grounds last year claimed it to be the best of its color. 25c. each; doz., \$2.50; \$17.50 per 100.

Minerva. Lilac rose, washed with white, with a bright carmine eye. This is a great improvement on Gruppinkonigin; a strong grower; about 2 feet high; a distinct acquisition. 50c. each; doz., \$5.00.

Rosamundi. A distinct variety of very attractive appearance. Produces immense trusses of enormous flowers of a beautiful soft rose color. 25c. each; doz., \$2.50; \$17.50 per 100.

Rheinlander. Deep salmon pink, with a distinct bright red eye. The plant is of a vigorous, branching habit and flowers with wonderful freedom. It is very early and lasts well into the season. The trusses are of gigantic size and of fine form and substance. 20c. each; doz., \$2.00; \$15.00 per 100.



Phlox, "Tapis Blanc"

Tapis Blanc. Undoubtedly the best of the semi-dwarf white sorts. The flower panicles are immense, making a great display early in the season, lasting well into the autumn. In our judgment, after having proved it, we feel safe in saying that it is the best white Phlox to-day. 25c. each; doz., \$2.50; \$17.50 per 100.

Thor. A remarkable bright shade of deep salmon pink; this variety is destined to take the same place in the deep salmon pinks, that is now occupied by "Linfield Beauty" in the lighter salmon pinks. 30c. each; doz., \$3.00; \$20.00 per 100.

Tolstoi. Entirely distinct; enormous panicles of a beautiful coppery amaranth with a blood red centre; should be in every collection. 50c. each; doz., \$5.00.

Tragedie. Deep carmine, a distinct shade with a lighter red eye. The flower heads are very compact and attractive. 30c. each; doz., \$3.00; \$20.00 per 100.

W. C. Egan. One of the prettiest in our entire collection, the color being a pale lilac with an intense solferino-red eye. It is of medium height and of branching habit, which means a free bloomer. A grand variety for the border. 20c. each; doz., \$2.00; \$15.00 per 100.

Widar. Light red, somewhat shaded violet. Each floret has a distinct white centre, which tends toward making the flower truss exceptionally showy. A free-flowering, attractive variety, which should be in every collection of Phloxes. 20c. each; doz., \$2.00; \$15.00 per 100.

SPECIAL OFFER: One each of the 18 varieties, offered on this page, embracing all the best of the novelties and those of recent introduction for \$4.50.

Michell's Gorgeous Hardy Phloxes



KEY TO VARIETIES

1. Linfield Beauty.
2. Iris.
3. Frau Anton Buchner.
4. Rhynstrom.
5. Prof. Virchow.
6. Rosamundi.

The price of any of the above Gorgeous Hardy Phloxes is 25 cents each, for strong plants which bloom the first year. The color plate collection of one each for \$1.25; or, if more of any one of the varieties are desired, the price will be \$2.50 per dozen, or \$17.50 per 100, as it might be some one person would like more or less of one color than the other.

Michell's Superb Hardy Phloxes

Our stock of these is unusually fine. We have endeavored to embrace in our list the very best sorts. We grow several hundred thousand of Phloxes, and a visit to our nursery in August, September and October presents a marvelous sight in beauty and color. In the past summer they were admired by thousands of people, who passed our nurseries by train, trolley, or automobile, and some were fortunate enough to be able to inspect them at close range through a personal visit.

BI-COLORED VARIETIES

- Crepuscle.** Silvery mauve, crimson center; very distinct and telling shade. 25c. each; doz., \$2.50; \$17.50 per 100.
- Europa.** Blush white, with a large deep pink center, making it a very showy combination. Very new and the best in its class; the flower truss is very large, while the florets are also of gigantic size.
- Grideur.** Soft rosy mauve, heavily suffused and overlaid with a lovely deep shade of cerise, giving the whole a beautiful mottled appearance. 25c. each; doz., \$2.50; \$17.50 per 100.
- Hervor.** Soft rich pink, with a white eye. 25c. each; doz., \$2.50; \$17.50 per 100.
- Richard Wallace.** Blush white, with violet eye; very showy.
- Wanadis.** Flowers mottled white and light violet, resembling somewhat the Phlox Canadensis. Each flower has a distinct reddish eye. 30c. each; doz., \$3.00; \$20.00 per 100.
- Widar.** Reddish violet, with a distinct white center. 20c. each; doz., \$2.00; \$15.00 per 100.

WHITE VARIETIES

- Frau Anton Buchner.** Very large pure white flower truss with gigantic individual florets. It makes a fine edging for a bed of hardy phlox, being of a very dwarf nature. 25c. each; doz., \$2.50; \$17.50 per 100.
- Jean d'Arc.** One of the latest white flowering, and for this reason should be included in every collection.
- Mrs. Jenkins.** Of medium height, with immense clusters of pure white flowers; very effective when planted in masses.
- Miss Lingard.** The earliest flowering phlox, beginning in June and blooms uninterruptedly till frost; rather tall and of vigorous growth; pure white; one of the finest phloxes grown. 25c. each; per doz., \$2.50; \$17.50 per 100.
- Tapis Blanc (New.)** Undoubtedly the best semi-dwarf in this color. The flower panicles are of immense size. It flowers early and continues until late in the autumn. It is one of the best of the recent introductions. 25c. each; doz., \$2.50; \$17.50 per 100.
- Von Lassburg.** The Queen of all clear white phloxes; trusses and single flowers are immense in size. As the plant is rather dwarf, it should always be planted in the foreground.

PURPLE AND LAVENDER VARIETIES

- Africa.** Rich royal purple, suffused crimson. This shade in phlox is much in demand. 25c. each; doz., \$2.50; \$17.50 per 100.
- Antoine Mercie.** Light ground, suffused lilac.
- Asia.** Rich shade of mauve. Color entirely distinct; must be seen to be appreciated. 25c. each; doz., \$2.50; \$17.50 per 100.
- B. Comte.** Brilliant rich purple; a fine variety.
- Eugene Danzanvilliers.** Delicate lavender; very attractive and decorative color; immense flowers. The peer of its color.
- Iris.** A variety of rare merit, and whether grown in masses or as a single specimen, the color will immediately arrest the eye. It is a deep reddish violet, of compact, erect habit, with flower trusses that rival any others for size. 25c. each; doz., \$2.50; \$17.50 per 100.
- Le Mahdi.** Of the shades of blue offered today, there are many which approach magenta; for this reason we highly recommend this sort, which is a royal deep purple.
- Wanadis.** A mixture of white and light violet, with a reddish purple eye. A very strong grower, producing trusses of enormous size. 26c. each; doz., \$2.00; \$15.00 per 100.
- W. C. Egan (New).** Pale lilac, with intense solferino red eye. Of medium height and branching habit. Very attractive. 20c. each; doz., \$2.00; \$15.00 per 100.

PINK VARIETIES

- Elizabeth Campbell.** Identical in shade of color with Mrs. John Laing Rose; delicate, refreshing pink with a white eye. Quite distinct, producing immense flower heads.
- Gefion.** Lovely peach blossom pink, with a distinct bright rose eye. The flower trusses are very large and compact. 30c. each; doz., \$3.00; \$20.00 per 100.
- Linfield Beauty (New).** The salmon pink phlox of the future, resembling Elizabeth Campbell in every way, but much better. The stock is limited. 25c. each; doz., \$2.50; \$17.50 per 100.
- Madame Paul Dutrie.** Delicate soft pink, resembles a delicate orchid. The flower trusses are enormous.
- Minerva.** Lilac rose, marked with white, with a bright carmine eye; showy spikes; very compact. 50c. each; doz., \$5.00.
- Rheinlander (New).** Deep salmon pink, with bright red eye; of vigorous growth and branching habit. Enormous flower trusses, which appear very early. 20c. each; doz., \$2.00; \$15.00 per 100.
- Rheinstrom.** A splendid new phlox with gigantic flowers of a bright pink. The growth is quite tall, the flowers come early and continue in bloom till frost; truly a grand variety. 25c. each; doz., \$2.50; \$17.50 per 100.
- Rosamundi.** The best of its color; a vigorous grower, producing freely great spikes of enormous soft rose flowers. This variety is bound to become very popular. 25c. each; doz., \$2.50; \$17.50 per 100.
- R. P. Struthers.** Deep salmon pink, dark center, very large.
- Selma.** Delicate soft pink, with deep red eye.
- Thor.** A much deeper color than the popular Elizabeth Campbell. Deep salmon pink, suffused with scarlet; a white halo surrounds the aniline red eye. 30c. each; doz., \$3.00; \$20.00 per 100.
- Tower of Eiffel.** Light salmon pink, red center; very early. A distinct variety. 25c. each; doz., \$2.50; \$17.50 per 100.
- Wm. Robinson.** Carmine pink, with deep crimson eye.

RED AND SCARLET VARIETIES

- Baron von Dedem.** Deep pink, suffused orange; immense trusses.
- Coquelicot.** Brilliant orange scarlet, with a large truss.
- Dr. Konigshofer.** Brilliant orange scarlet, with dark blood red eye, resembling Coquelicot, but is more brilliant and of dwarf growth. 25c. each; doz., \$2.50; \$17.50 per 100.
- Electra.** A brilliant red, with a darker shade; one of the very best. 50c. each; doz., \$5.00.
- Fernand Cortez.** Cerise pink, with a purple eye.
- General von Heutsz.** This produces immense trusses of enormous flowers, which are of a delicate salmon scarlet, surrounded with a lavender eye, which is edged white.
- Geo. A. Strohleim.** Bright scarlet, with crimson red eye.
- Gen. Chanczy.** Orange, suffused scarlet; purple eye.
- Goliath.** A distinct variety of attractive appearance; a tall grower, attaining a height of 3 feet. The flower trusses are large and of a bright cerise color with deep eye.
- Matador.** Cherry red, crimson eye; dark foliage.
- Montagnard.** Dark purple claret; large spikes and flowers.
- Professor Virchow.** Bright carmine, shaded orange red. 25c. each; doz., \$2.50; \$17.50 per 100.
- Tragedie.** Carmine red, with a distinct blood red eye. 30c. each; doz., \$3.00; \$20.00 per 100.
- Von Hochberg.** Rich deep crimson. 25c. each; doz., \$2.50; \$17.50 per 100.
- Other hardy Phloxes will be found among the pages of perennials in alphabetical order.

Price of any of the above Phloxes, except where noted, in strong plants which will give splendid satisfaction the first season.
15c. each; dozen, \$1.50; \$10.00 per 100.



Liatris pycnostachia (See page 163)

Oenothera (Evening Primrose)

Commences flowering in June and lasts throughout the season. The plants are about 10 inches high, and suitable for either border or rock garden work.

Eldorado. Double golden yellow.

Fraseri. Deep yellow; 18 inches high.

Missouriensis. Golden yellow; large.

Speciosa. Pure white; 18 inches high.

Youngi. Rich lemon yellow.

Price of any of the *Oenothera*, 15c. each; doz., \$1.50; \$10.00 per 100.

Ononis

Hircina. A creeping, fast growing plant, with pink, pea-shaped flowers, appearing in May and June. 25c. each; doz., \$2.50; \$17.50 per 100.

Onopordon (Cotton Thistle)

Tauricum. A stately plant, with silvery leaves; these, as well as the stems being covered with white fuzzy flowers which resemble a majestic Scotch Thistle. Blooms in June and July. 5 feet high.

Robert Bruce. Branching heads of bold, grayish, elegantly cut foliage and silvery white flowers and stems.

Price of the above, 25c. each; doz., \$2.50; \$17.50 per 100.

Orobis (Bitter Vetch)

This class of plants succeeds in almost any location or soil. Excellent for borders or rockeries, flowering in May and June.

Lathyroides. Pea-shaped blue flowers; 1 foot high.

Superbus. Purple flowering; 1 foot high.

Vernus. Deep purple, pea-shaped; 1 ft.

Price of any of the above, 25c. each; doz., \$2.50; \$15.00 per 100.

Pachysandra

An evergreen trailing plant, with thick glossy foliage forming a dense mat; one of the finest ground covers for either sunny or shaded locations.

Terminalis. Green; 6 to 8 inches high; small flower spikes of a grayish white, in May and June. 15c. each; doz., \$1.50; \$10.00 per 100.

Pardanthus (Blackberry Lily)

Sinensis. Lily-like flowers of bright orange, appearing during July and August, which develop into seed heads, resembling blackberries. July-August. 15c. each; doz., \$1.50; \$10.00 per 100.

Pentstemon (Beard Tongue)

It somewhat resembles the *Gloxinia*, but is longer and narrower. Starts to flower in early summer and lasts until the frost will strike it down.

Barbatus Torreyi. Brilliant scarlet.

Diffusus. Deep purple; 1½ feet.

Digitalis. Purplish white flowers with dark purple throat.

Glaber Hybrids. Mixed colors; 2 feet.

Grandiflorus. Dwarf bushy growing plants with purple flowers.

Ovatus. Bright blue, shaded bronzy purple. July-September. 2 feet.

Sensation. A splendid mixture of different shades; 2½ feet high.

Price of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Phlox Arendsi

A new dwarf class, from 12 to 24 inches high. The plants are of vigorous, branching habit and continue to flower from the latter part of May until the end of July.

Amanda. 12 inches high; delicate lilac with deeper centre.

Charlotte. 18 to 24 inches high; pale lilac shaded pink, dark eye.

Grete. Very branching habit; 20 inches high; flowers pure white.

Kathe. 20 inches high; flowers purplish rose with dark eye.

Louise. 2 feet high; strong grower; light lilac with a carmine eye.

Price of any of the above *Phlox Arendsi*, 25c. each; doz., \$2.50; \$17.50 per 100.

Phlox (Miscellaneous)

Amœna. A beautiful plant, with soft rose-colored flowers; one of the best for rockery or borders; 4 inches high; April-May.

Divaricata Canadensis. A patch of these makes a spring show hard to describe. The large heads of fragrant lavender flowers appear the latter part of April and in May.

Divaricata Alba Grandiflora. A white-flowered form of the above. 20c. each; doz., \$2.00; \$12.50 per 100.

Ovata Carolina (*Mountain Phlox*). A handsome evergreen species of dwarf habit, with masses of rosy pink flowers; 10-12 inches; May and June.

Subulata Rosea (*Moss Pink*). Moss evergreen-like foliage, tucking close to the ground and covered completely with pink star-like flowers in May.

Subulata Alba. The same as *Rosea*, with pure white flowers.

Price of any of the above Miscellaneous *Phlox* (except as noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Phlox Decussata

(Other Hardy *Phlox*, see page 168.)

Physalis (Lantern Plant)

Alkekengi. Ornamental variety of the Ground or Winter Cherry. The lantern-like, orange-red fruits are highly interesting; 2 feet high.

Francheti. Similar to the above, except the fruits have a more brilliant color.

Price of *Physalis*, 15c. each; doz., \$1.50; \$10.00 per 100.

Physostegia (False Dragon Head)

Attractive perennials, blooming July and August; 3 to 4 feet high; throwing up spikes, decked with delicate tube-shaped flowers, somewhat resembling a large flowering heather.

Virginica. Delicate soft pink.

Virginica Alba. Pure white.

Speciosa.

Price of either of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Platycodon (Japanese Bell Flower)

Very useful for cutting, and with a very long flowering season, lasting from June until October. Height, 2 to 3 feet.

Grandiflorum. Beautiful blue; very handsome.

Grandiflorum Album. Identical with the above, except the color, which is pure white.

Price of either of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Plumbago (Leadwort)

Larpenae. A dwarf spreading plant, splendid for rock garden and for edging hardy borders. During summer and fall months it is covered with rich deep blue flowers. 15c. each; doz., \$1.50; \$10.00 per 100.

Hardy Garden Pinks (Double)

These old-fashioned favorites, bearing their clove-scented flowers during the spring and early summer, are absolutely perfect as an edging for the hardy border; as cut flowers, they are indispensable.

Carmen. A fine early light pink.

Her Majesty. One of the best; pure white.

Homer. Rosy-red, with dark centre. 25c. each; doz., \$2.50; \$15.00 per 100.

Juliette. White, bordered crimson.

White Reserve. Flowers the entire summer; pure white.

Price of any of the above hardy garden pinks (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Polemonium (Jacob's Ladder)

Handsome border plants, about 1 foot high, succeeding best in a semi-shaded location. The flowers, which appear from June to September, are very showy.

Richardsoni. Sky blue with golden anthers.

Richardsoni Alba. A white form of the above.

Price of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

MICHELL'S HARDY PERENNIAL PLANTS



Oriental Poppy Goliath

Iceland Poppies

The graceful foliage is surmounted with a mass of stems a foot high, which terminate in a beautiful cup-shaped flower. Flowers continuously the entire summer.

Orange King (Orange Yellow).

White. Yellow. Mixed Colors.

Any of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Oriental Poppies (Papaver)

The gorgeous colored flowers of the Oriental type make a rich, brilliant show. These bloom usually in July. After the flowering period the plants have a tendency to take on the appearance as if they were dead. But they return to vigor usually as soon as the weather becomes cool.

Fuerstenkind. Brilliant scarlet.

Goliath. One of the most effective, large flowers of a rich scarlet; the largest flowered of this class.

Mrs. Perry. Soft salmon rose.

Mahony. Crimson maroon, shaded mahogany.

Marie Studholme. Pure salmon, shaded silvery.

Perry's White. Pure satiny white with a bold crimson blotch at the base of each petal. 35c. each; doz., \$3.50.

Rose Queen. Clear salmon pink.

Silberblick. Silvery white, shaded salmon.

Princess Victoria Louise. Beautiful shade of salmon pink.

Price of any of the above Oriental Poppies (except where noted), 25c. each; doz., \$2.50; \$17.50 per 100.

Polygonum (Knot Weed)

Brunonis. For rockery or borders; produces fine spikes of rose-colored flowers; 12 inches; July-September.

Compactum. This variety is covered with white flowers during August and September; 15 inches.

Cuspidatum. Grows 5 to 7 feet high, and produces in the autumn long, drooping clusters of white flowers; fine for planting with shrubbery.

Price of the above Polygonums, 15c. each; doz., \$1.50; \$10.00 per 100.

Potentilla (Five Fingers)

Handsome plants, with brilliant flowers, which appear in great profusion from June until August. They do well in any soil; 18 inches high.

Atrosanguinea. Velvety, brilliant red single flowers; plant of branching habit; covered with bloom from June to autumn.

Formosa. Fiery orange, with light yellow.

Hoopwoodiana. Dark red, shaded yellow.

Price of Potentillas, 25c. each; doz., \$2.50; \$17.50 per 100.

Prunella

Grandiflora. Dwarf growing plant, suitable for shady places and rockery work. Blooms continuously all summer. Purple flowers.

Incisa. Bright rosy purple.

Price of Prunellas, 25c. each; doz., \$2.50; \$17.50 per 100.

Primula (Hardy Primrose)

One of the first of the early spring flowers which delight in a rich soil, preferably in a semi-shaded location. Some of the varieties are richly colored, and are worthy of a place in every hardy garden. As a hardy border edging, as well as for rockery planting, it can be highly recommended.

Acaulis Alba Plena. Double white. 25c. each; doz., \$2.50.

Acaulis Lilac. Very early and prolific. 25c. each; doz., \$2.50.

Auricula. A mixture of brilliant shades of red and yellow, of seed saved from the finest strains.

Polyanthus. Velvety red, edged golden yellow.

Veris (English Cowslip). A mixture, covering various shades of red and yellow. 10c. each; doz., \$1.00; \$7.50 per 100.

Price of any of the above (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Pulmonaria (Lungwort)

Angustifolia Azurea (Blue Cowslip). This is the prettiest of the blue varieties; grows about 12 inches high and is one of the first to flower in spring. 25c. each; doz., \$2.50; \$17.50 per 100.

Officinalis Rosea. A rose-pink colored variety; flowering in April; 1 foot. 15c. each; doz., \$1.50; \$10.00 per 100.

Testimonial

The plants sent are certainly very fine. You will hear from me next spring with a much, yes, very much, larger order.

THEO. F. BRYANT,
629 S. Williams St.,
Dayton, Ohio.

Pyrethrum

This is one of the handsomest perennial flowers in cultivation today. The large daisy-like blooms appear as early as June and continue in abundance continuously until September. They delight in a rich soil with a natural drainage. They thrive best in the full sunlight. As the flowers die, the old stems should be cut off to encourage new blooms.

Our collection of these is extremely fine and true to description, comprising some of the best English varieties.

Alfred. Double; rich crimson.

Cleopatra. Double; flesh colored, with yellow centre.

La Belle Blonde. Double; pure white; one of the best.

Lady Derby. Silvery flesh; late flowering; double.

La Vestale. Double; white tinted lilac; extra fine.

Lord Roseberry (New). Brilliant crimson; double. Strong plants, 50c. each; doz., \$5.00.

Mme. Patti. Double; silvery rose; fine flower.

Mont Blanc. Double; white.

Queen Mary (New). Bright peach pink; one of the finest sorts. Strong plants, 50c. each; doz., \$5.00.

Roseum Plenum. Double; rose and white; very distinct.

Solfatare. Double; creamy yellow; a splendid flower.

Uliginosum. Single giant white.

Single Hybrids in choice mixture.

Single Pyrethrums, 15c. each; doz., \$1.50; \$10.00 per 100.

Price Double Pyrethrums (except where noted), in strong plants, 35c. each; doz., \$3.50; \$25.00 per 100.



Pyrethrum Lord Roseberry

Ranunculus (Buttercup)

Acris Fl. Pl. A dainty double sort with yellow, button-like flowers; 2 feet. 15c. each; doz., \$1.50; \$10.00 per 100.

Rosemary

Officinalis. 10c. each; doz., \$1.00; \$7.50 per 100.

Rudbeckia (Cone Flower)

A variety of these will furnish a supply of cut flowers from early July until September. They are extremely hardy, doing well with every one. They could be termed "a city garden perennial," doing so well with little attention.

Golden Glow. Double canary yellow; 6 feet; flowers in August.

Morgenroete (New). A decided improvement on the old favorite, "Purpurea." Flowers 4 to 5 inches across; of a beautiful rosy lilac color, with a large distinct cone of light orange, which harmonizes well with the petals. 50c. each; doz., \$5.00.

Newmanni. Single dark orange with deep purple cone centre; 3 feet high; flowers from July to September.

Purpurea (Giant Purple Cone Flower). The flowers remain in perfect condition on the plants for weeks at a time. Flowers from July to September; 2½ feet high.

Autumn Sun. A splendid single flowering sort; very showy. It has long, broad petals of a bright primrose yellow; 5 to 6 feet high; flowers from August to October.

Rays of Gold. An improved form of the well-known Golden Glow. The flowers have the same golden color, but have narrow petals, which form a perfect globe.

Price of above Rudbeckias (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Salvia (Meadow Sage)

Azurea. The plant is covered with a mass of rich sky blue flowers, commencing in July and lasting until September; about 3 feet tall. 15c. each; doz., \$1.50; \$10.00 per 100.

Salvia Virgata Nemorosa. This splendid new variety grows into a shapely dense bush form, above which tower the flower spikes, decked with many deep blue blossoms. Blooms continuously from July to September; 2½ feet.

Greggii. Cerise crimson; 2½ to 3 feet. Blooms the entire summer and is quite hardy. 35c. each; doz., \$3.50; \$25.00 per 100.

Uliginosa. A beautiful late sort of an attractive shade of blue with a distinct white eye. The plant is of upright habit, branching, and grows about 5 feet high. It blooms freely and flowers practically at every axil. 15c. each; doz., \$1.50; \$10.00 per 100.

Pitcheri. Similar to the Azurea, but of more branching habit; the flowers are very large and of a deep blue color; 3 feet high; July-September.

Sclarea. An interesting variety. Pale purple flowers, lower lip white; 3 feet; June and July. 15c. each; doz., \$1.50; \$10.00 per 100.

Price of the above Salvias (except where noted), 25c. each; doz., \$2.50; \$17.50 per 100.

Saponaria (Soap Wort)

Caucasica. Double white, tinted rose, flowering all summer; 15 inches high.

Ocymoides. A splendid plant for rock work, growing only 9 in. high. Covered through the whole summer with masses of small, brilliant pink flowers. Either of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Satureia (Savory)

Montana. An evergreen, aromatic plant with slender, branching stems; 12 in. high; covered with showy white flowers in August and September. 25c. each; doz., \$2.50.

Saxifraga

These are exceedingly valuable for the front of the border or shrubbery, also for rockeries. The plants form masses of handsome, deep green foliage, and the flowers appear very early in spring, as soon as the frost is out of the ground; they will thrive in any kind of soil and in any location; 1 foot high.

Cordifolia. Light pink.

Croesus. Red.

Delia. Crimson purple.

Orbicular. Deep rose.

Speciosa. Crimson.

Stracheyi Alba. White.

Price of Saxifragas, 25c. each; doz., \$2.50.



Scabiosa Caucasica

Scabiosa

The hardy variety is even more wonderful and of greater beauty than the annual sort, commonly called Mourning Bride. The flowers are gigantic, measuring frequently 3 inches and more in diameter. It delights in a sunny position, and is a cut flower few perennials can equal. It lasts a long while in water. The average height is about 2½ feet. Very free flowering.

Caucasica. A delicate shade of lavender blue, starting in flower in June and lasting well through the summer.

Caucasica Alba. White. Like the above, except the color.

Japonica. Rich lavender blue; July and August.

Price of Scabiosas, 25c. each; doz., \$2.50; \$15.00 per 100.

Schizophragma (See Page 177)

Scutellaria

Coelestinum. A dwarf spreading Alpine plant, with bright blue flowers; splendid for rockeries; July-August. 15c. each; doz., \$1.50; \$10.00 per 100.

Sedum (Stonecrop)

Acre. The foliage of this is a distinct attraction in itself, being of a yellowish green shade; for covering rockeries, in borders or beds on cemetery lots it is indispensable. The flower, which appears in July, is bright yellow and lasts on the plant a long while; height, 6 inches.

Album. Green foliage, white flowers; height, 6 inches.

Maximum Atropurpureum. Dark bronzy-purple foliage; red flowers. 25c. each; doz., \$2.50; \$15.00 per 100.

Sexangulare (Love'n'tangle). Dark green foliage; yellow flowers; 6 inches.

Sieboldii. Roundish foliage, with a blue cast, the flowers, which appear in August and September, are bright pink.

Spectabilis. This variety grows about 18 inches and flowers in June, foliage light green, immense heads of pink flowers.

Spectabilis Brilliant. One of the prettiest tall growing species, reaching a height of about 18 inches; broad light green foliage and richly colored flowers of amaranth red. September-October. 25c. each; doz., \$2.50; 100, \$15.00.

Stahli. Compact variety with crimson tinted foliage in autumn.

Price of any of the above, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

Senecio (Groundsel)

Clivorum. A very effective plant with large green foliage and loose branching heads of bright yellow flowers; 3 to 5 feet high. Good for low, damp locations. 25c. each; doz., \$2.50; \$17.50 per 100.

Wilsonianus. A new species from China, bearing immense branching panicles of golden yellow flowers. 50c. each; doz., \$5.00.

Veitchianus. This variety grows 6 feet, with large heads of bright yellow flowers. 25c. each; doz., \$2.50.

Shasta Daisy

(See Chrysanthemum, page 157)

Silene (Catchfly)

Charming Alpine plants, in bloom from spring until fall; fine for rockeries.

Alpestris. Star-shaped, white flowers on slender stems; 6 inches.

Asteria Grandiflora. Bright red flowers; all summer; 3 feet high.

Schafta. Rosy purple; 4 inches high; July to October.

Price of above Silenes, 15c. each; doz., \$1.50; \$10.00 per 100.

Testimonial

Coldwater, Michigan.

The plants arrived in first-class condition and they are great. You are so very kind in your business, that anyone can't help but like to deal with your firm.

JOSEPH HERMANN,

Head Florist at the State Public School.

(hn)

MICHELL'S HARDY PERENNIAL PLANTS

Stachys (Wound Wort)

An attractive plant, 12 to 15 inches high; flowering in June and July.

Betonica Rosea. Rich brilliant pink.

Lanata. An ideal edging plant with bright silvery-white woolly foliage. The flowers, which are rather small, are bright purple; 8 inches high.

Either of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Statice (Sea Lavender)

Principally grown for dried winter bouquets.

Gmelini. Immense panicles of flowers of a delicate light blue color; 15 inches high; July to October.

Latifolia. Gigantic heads of dark blue flowers; June to October.

Eximia. Large panicles of pretty lilac flowers; 15 to 18 inches high.

Tartarica. Deep lilac flowers, which appear all summer; 15 to 18 inches high.

Price of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Stenanthum (Mountain Feather Fleece)

Robustum. An interesting, showy perennial from the Caroline Mountains; the fine spear-like leaves bend charmingly on all sides and from the centre springs a tall flower spike, bearing an immense number of small pure white flowers. 50c. each; doz., \$5.00.

Sylphium (Cup Plant)

Perfoliatum. Large, beautiful foliage plants, with opposite leaves, which join around the stem forming cup-like cavities; flowers yellow in corymbose heads. 25c. each; doz., \$2.50; \$17.50 per 100.

Sweet William (Dianthus Barbatu)

This plant occupies a foremost position, producing, early in spring, quantities of bloom which make a grand effect, for just when they are in flower, it is generally too soon for other perennials; for wild garden effect, Sweet Williams should occupy first place.

Michell's Prize Mixture. In all colors.

Pink Beauty (sometimes called Newport Pink). A splendid shade of salmon with immense flower trusses. When massed it is a striking feature of the perennial garden; an extra fine novelty.

Pure White, Crimson, Red with White Eye, Maroon, Scarlet, Violet with Eye, Pink. Each color separate.

Price of any of the above in extra strong plants, 10c. each; doz., \$1.00; \$7.50 per 100.

Tanacetum

Vulgare. Bright yellow flowers and curled leaves; 3 feet; July to September. 15c. each; doz., \$1.50; \$10.00 per 100.

Thalictrum (Meadow Rue)

Very graceful plants with handsome, finely cut foliage; they make splendid border plants, also useful for rockeries.

Aquilegiafolium Atropurpureum. Rosy purple; 3 feet.

Aquilegiafolium Album. White; 3 feet.

Aquilegiafolium Album Compactum. A compact growing form of the Columbine-leaved Meadow Rue, not over 2 feet high; flowers of purest white in large heads. 35c. each; doz., \$3.50.

Flavum. Rich yellow; 2 feet.

Adiantifolium. Foliage resembles the Maiden Hair Fern; miniature white flowers appear in profusion in June and July; 12 inches.

Dipterocarpum. Valuable for cut flowers. The individual plants are of a rosy purple color; 4 feet; June to August. 35c. each; doz., \$3.50.

Price of above Thalictrums, except where noted, 25c. each; doz., \$2.50; \$17.50 per 100.

Thermopsis

Fabacea. A tall growing, very showy plant, which produces long spikes of yellow flowers from June to August. 15c. each; doz., \$1.50; \$10.00 per 100.

Caroliniana. A showy, tall growing plant, 3 feet high; long spikes of yellow flowers in June and July. 25c. each; doz., \$2.50; \$17.50 per 100.

Tricyrtis (Japan Toad Lily)

Hirta. An excellent plant of Japanese origin; 2 to 3 feet; very free blooming; the white flowers are plentifully besprinkled with purplish dots. 25c. each; doz., \$2.50; \$17.50 per 100.



Rudbeckia Golden Glow (see page 171)

Solidago (Golden Rod)

Altissima. The finest of the Golden Rods, growing 4 to 5 feet high, with stately panicles of bright golden yellow flowers from July to September.

Canadensis. Our native Golden Rod; deep yellow flowers in August and September; 4 feet.

Golden Wings. The finest of the Golden Rods; very showy; 5 feet high, with immense panicles of bright golden yellow flowers from July to September. 25c. each; doz., \$2.50; \$17.50 per 100. Price of Solidagos (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Spiraea (Drop Wort)

Graceful border plants with feathery plumes of flowers; specially adapted for shady positions.

Aruncus. A majestic plant, growing 4 to 6 feet high; large plummy foliage and massive plumes of white flowers; fond of moisture and shade.

Fillipendula fl. pl. A charming variety with double white flowers and deeply cut foliage; 1½ feet; June and July.

Palmata (Crimson Meadow Sweet). Purplish red stems and crimson purple flowers; 3 feet; June-July.

Ulmaria fl. pl. Double white; 3 feet; June-July.

Venusta Magnifica. A magnificent new sort with intense rosy-red, fragrant flowers; 4 to 5 feet; June-July. 50c. each; doz., \$5.00.

Price of above Spiraeas, except where noted, 15c. each; doz., \$1.50; \$10.00 per 100.

For other Spiraeas, see page 181.



Stokesia

Stokesia (Corn Flower Aster)

The flower has the appearance combining a giant cornflower and an aster. Plants are 18 inches high and are of spreading habit, blooming from June until frost. Succeeds in most any location.

Cyanea. Very light blue.

Cyanea Alba. Pure white.

Price of the above, 15c. each; doz., \$1.50; \$10.00 per 100.

Trillium (Wood Lily)

Excellent for shaded positions, flowering very early in spring. It looks best when planted promiscuously among hardy plants.

Erectum. Purple.

Grandiflorum. White.

Price of Trilliums, 10c. each; doz., \$1.00; \$6.50 per 100.

Tritoma

(Flame Flower, Torch Lily or Red Hot Poker Plant)

In summer and autumn when other flowers are on the wane, the Tritoma looms up and furnishes a wealth of bloom till killing frosts check it. A vase of these arranged with autumn leaves or ornamental grasses make a handsome effect. Though the roots are considered hardy, we, however, recommend that they be lifted in the autumn and placed in a box of soil or sand, preferably in the cellar. There are a number of varieties in commerce, but the sort mentioned below seems to be demanded most and fills every need.

Pfitzeri. Blooms from August till October; rich orange scarlet. 25c. each; doz., \$2.50; \$17.50 per 100.

Express. A splendid new variety, which flowers much earlier than any other sort, commencing in July and lasts until frost; deep coral red. 25c. each; doz., \$2.50; \$17.50 per 100.

Tuckii. The flowers of this variety are of a distinct shade of red, shaded primrose yellow; 4 feet high; August-September. 25c. each; doz., \$2.50; \$17.50 per 100.

Quartiniana. Bold, Yucca-like foliage; 5 to 6 feet high; bright scarlet fading to pale yellow, in early summer. 35c. each; doz., \$3.50.

MacOwani. A wonderful free bloomer; 2 feet high; flowers are rich coral red; splendid for massing. 25c. each; doz., \$2.50; \$17.50 per 100.



Tritoma

Trollius (Globe Flower)

An early flowering plant, lasting in bloom till August. It prefers a shaded location; while hardy, we recommend a slight protection to the plant in winter; height, 12 inches.

Caucasicus "Orange Globe." A fine bold variety, with large, deep-orange colored flowers.

Europaeus. Bright yellow.

Japonicus "Excelsior." Very deep orange colored flowers.

Price of any of the above, 25c. each; doz., \$2.50; \$17.50 per 100.

Valeriana (Spurred Flower)

Coccinea. Showy heads of red flowers, in bloom all summer; 2 feet.

Coccinea Alba. A white form of the above.

Officinalis (Hardy Garden Heliotrope).

Showy pink flowers from June to August, with a strong heliotrope perfume.

Price of any of the above, 15c. each; doz., \$1.50; \$10.00 per 100.



Veronica Longifolia Subsessilis

Veronica (Speedwell)

A fairly numerous and much grown group of perennials which, with few exceptions, bears spikes of blue flower. Excellent for cutting.

Incana. White, silvery like foliage, tufted with pale blue flowers; 12 to 18 inches; July and August.

Longifolia Subsessilis. Grows 2½ feet high and is completely studded with spikes of rich blue flowers from July to August. 25c. each; doz., \$2.50; \$17.50 per 100.

Spicata. A very variable species; dense tufts; erect spikes of blue flowers in June and July; 18 inches.

Spicata Alba. Similar to preceding, but with white flowers.

Virginica. Free flowering, with bold upright habit. Pale blue; July and August.

Virginica Alba. Large, pure white.

Price of above Veronicas (except where noted), 15c. each; doz., \$1.50; \$10.00 per 100.

Vinca (Periwinkle or Myrtle)

It is often a perplexing problem to find the plant that will do well in a dense shade. Right there is where Vincas of the hardy class should be employed, also in lawn plantings under trees, in woodlands and on spots where it is desired to cover the ground and no grass will grow. The attractive light lavender flowers produce a sheen of color in May. It is valuable for planting on cemetery lots by reason of its dwarf creeping habit. The foliage is green all winter.

Aurea (New). Identical in habit and value with the **Minor** type, except that the foliage is green, margined yellow. It is fast becoming very popular by reason of the brilliant show it makes when mixed in plantings of the **Minor** variety. 25c. each; doz., \$2.50; \$17.50 per 100.

Minor. Green foliage, lavender flowers. Extra strong plants, 15c. each; doz., \$1.50; \$10.00 per 100.

Viola (Tufted Pansies)

A so-called everblooming pansy. They are in ways better than pansies, as they start to flower in April and are a blaze of color till killing frosts. While not as large as pansies the flowers are so free that they are planted extensively in preference to the latter. If possible they should be put in a shaded location where they flower most freely. **Blue and Purple, White and Yellow** varieties separate. 10c. each; doz., \$1.00; \$6.00 per 100.

Gustav Wermig. In crossing the Tufted Pansy with a sweet-scented Violet we have here a most wonderful new flower, resembling in form, shape, color and length of stem a well-known Florist's Violet, Princess of Wales, but the foliage is that of the Pansy. The most remarkable feature of this novelty is its freeness of bloom; a bed of these is a sea of blue from beginning of May until frost time. 15c. each; doz., \$1.50; \$10.00 per 100.

Pedata (Bird's Foot Violet). A native variety, with finely cut foliage and showy blue flowers. 10c. each; doz., \$1.00; \$6.00 per 100.

Pedata Bicolor. An elegant variety of the above; the upper petals are rich royal purple; the lower petals almost white. 15c. each; doz., \$1.50; \$10.00 per 100.

Yucca (Adam's Needle)

This plant sets off to best advantage if placed as individual specimens either on the lawn or in the shrubbery border. The foliage is of an evergreen nature, is slender and pointed. The tall flower-spikes rise 4 to 5 feet above the plant and are decked with cream white bell-shaped drooping flowers July and August. A majestic plant, especially fine for producing tropical effects.

Filamentosa. White, with reflexed flower bells. Extra strong plants, 25c. each; doz., \$2.50; \$17.50 per 100.

Special Notice—We have just compiled, at great expense, a publication, entitled "**Hardy Perennials and How to Grow Them.**" A copy is yours for the asking.

This family of Climbing Plants are probably more popular than any other. Some of the small flowering varieties are exceedingly fragrant. The large flowering types make a glorious effect on account of their gigantic blooms and striking appearance. All Clematis delight in plenty of sunlight, rich soil and plenty of water in dry weather. Our list of large flowering sorts is limited to the best varieties, which bloom generally in June.

LARGE FLOWERING VARIETIES

Note.—Great care should be exercised in planting the large-flowering varieties. During the process of transplanting, the stem is likely to get broken below the eye shoots, which would render the plant useless. To guard against this, place a few stakes around the plant to protect it after planting. In the winter put a covering of straw, long manure or leaves around the roots.

Duchess of Edinboro. Double, pure white.

Henryi. Creamy white large single flower borne in great profusion.

Integrifolia Durandi. Grows about 5 feet high, flowers early in the summer, intermittently until autumn; produces very large flowers of an intense shade of indigo blue. Conceded to be one of the finest of the Clematis family and described as being of wonderful beauty.

Jackmanni. Violet-purple, intensely colored gigantic flower.

Mme. Baron Veillard. A rich, reddish purple.

Mad. Edouard Andre. Velvety red flowers are well formed of great substance; the blooms are gigantic.

Montana Grandiflora. Large, pure white flowers about 2 inches in diameter, begins to flower early in April and at times the whole plant is covered with bloom.

Montana Rubens (New). Medium-sized flowers, a soft shade of rosy red, looks excellent when massed among Clematis Paniculata. Though it dies down in the winter, the roots should be protected to ensure its remaining alive in the latitude of Philadelphia. 60c. each; doz., \$6.00.

Nelly Moser. White and pink in one flower; striped carmine pink, flowers are often 4 to 5 inches in diameter.

Sieboldi (Hybrida). Very large bright blue flowers, a distinct contrast to every other variety.

Ville de Lyon. Bright carmine.

Price of any of the above Large Flowering Clematis, except where noted, in extra strong pot-grown plants, 50c. each; doz., \$5.00.

SMALL FLOWERING VARIETIES

These flower profusely, and are in demand for covering porches, trellis and arbors, and to climb over posts and fences.

Coccinea. Bright red, bell-shaped small flowers, which begin to appear in June and last until frost. 30c. each; \$3.00 per doz.

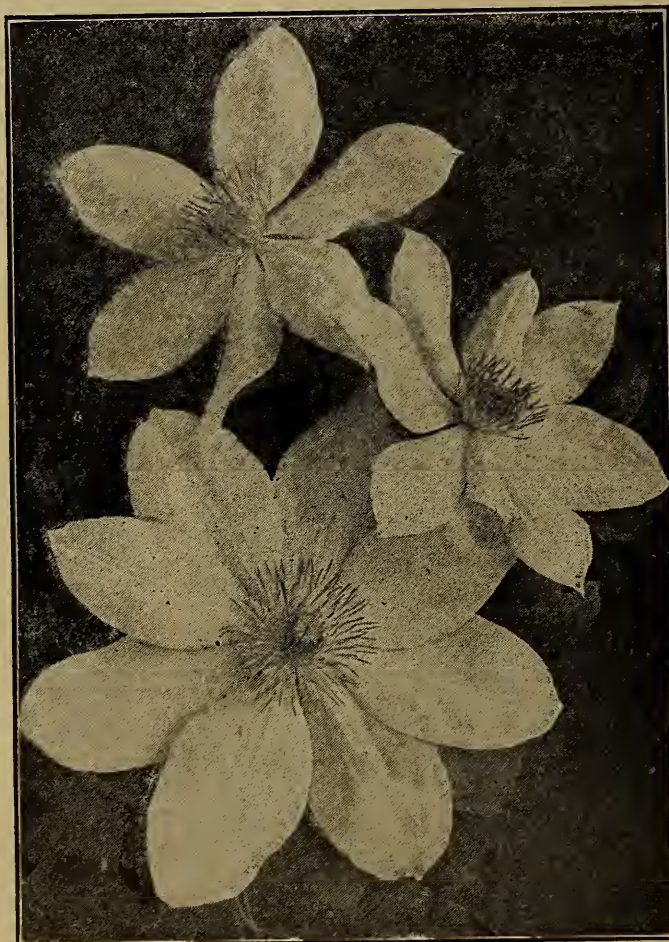
Crispa. This variety bears sweet-scented, lavender flowers, white in the centre. It flowers early and continues until frost. Makes an excellent combination of color when planted with the Flammula and Coccinea varieties. Extra strong plants, 30c. each; \$3.00 per doz.

Flammula (Fragrant Virgin's Bower). White flowers, a trifle smaller than above; fragrant, blooms June and July. Extra strong plants, 30c. each; doz., \$3.00.

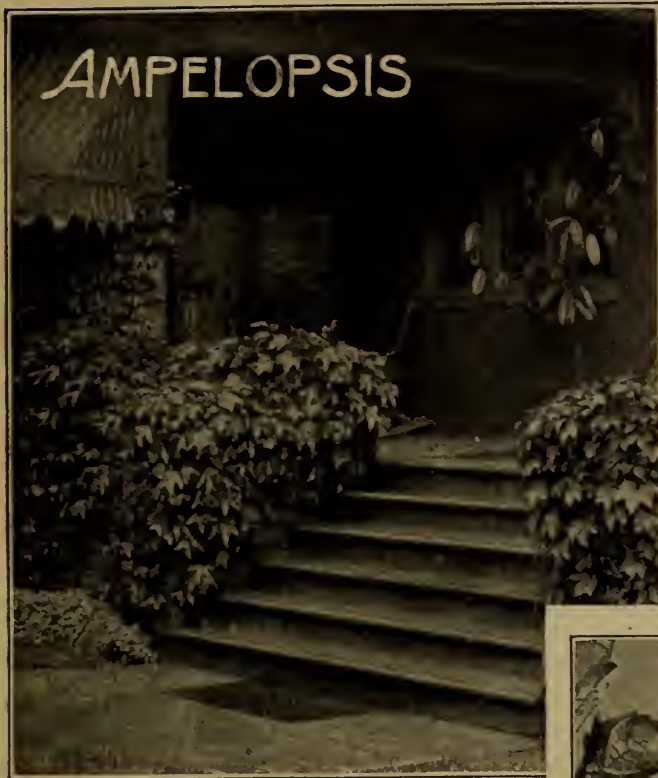
Paniculata (Japanese Virgin's Bower). A strong luxuriant grower, with light green foliage. At the close of August innumerable star-like flowers cover the vine in a sheet of fragrant white. Strong plants, 25c. each; per doz., \$2.50; \$15.00 per 100. Extra strong plants, 50c. each; per doz., \$5.00; \$35.00 per 100.



A beautiful effect made with Clematis Paniculata



Clematis Jackmanni. One of the most beautiful of the large flowering species.



AMPELOPSIS (Continued)

Quinquefolia (*Virginia Creeper*). The large, handsome, dark green leaves are deeply cut into five lobes, hence the name "Five Finger" is often given to it. In the autumn the foliage turns a beautiful rich crimson; especially adapted to covering tree stumps and trunks. Extra strong plants, 25c. each; per doz., \$2.50; \$15.00 per 100.

Veitchii (*Boston Ivy*). The popular climber for brick and stone buildings and walls. The leaves are a beautiful deep green, which in the autumn turn to a coppery red. Strong plants, 25c. each; per doz., \$2.50; \$17.50 per 100. Extra large plants, 50c. each; doz., \$5.00.

ARISTOLOCHIA (Hardy)

Sipho (*Dutchman's Pipe*). Handsome light green leaves, giving a quick, dense shade. The brown flowers are shaped like the bowl of a pipe. The vine retains its color throughout the entire summer. Large plants, 50c. each; doz., \$5.00.

BIGNONIA (Trumpet Vine) Hardy

These are strong-growing vines, with rich green foliage and trumpet-shaped flowers.

Grandiflora. Large flowering, bright orange-red. Strong plants, 50c. each; doz., \$5.00.

Radicans. Dark red, free-flowering, throat shaded orange. Our plants are extra large of this variety. 35c. each; doz., \$3.50.

CELASTRUS (Bittersweet or Waxwort) (Hardy)

Scandens. A native of this country and a vine of rapid, quick growth. In the early summer it produces yellow flowers, which by autumn have turned to bright, orange-colored fruits, with red markings. The foliage is elongated, very dark green. Extra strong plants, 35c. each; per doz., \$3.50.

CINNAMON VINE (Hardy)

A very free growing climber, with small white flowers deliciously scented; makes a quick, dense shade. These can be mailed. Extra strong roots, 10c. each; per doz., \$1.00; \$7.00 per 100. Strong roots, 5c. each; per doz., 50c.; \$3.00 per 100.

COBEA (Annual)

Scandens. A beautiful blue, cup-shaped flowering annual climber, very desirable for lattice covering, etc. Extra strong plants, 4 in. pots, 25c. each; per doz., \$2.50.

ENGLISH IVY (Hardy)

This is an invaluable plant for covering brick and stone walls and buildings. It rarely ever dies out and needs no attention. 4 in. pot plants, 25c. each; per doz., \$2.50; \$17.50 per 100. 6 in. pot plants, 50c. each; doz., \$5.00; \$35.00 per 100.

ACTINIDIA (Hardy)

Arguta (*Silver Vine*). An introduction from China which in this country is grown principally for the dense shading foliage, which is very dark green, heart shaped. In its native home it is supposed to flower yellow, although in this country it has not been known to bloom. Fine for covering tree trunks, arbors, etc. Strong plants, 50c. each; doz., \$5.00; extra strong plants, 75c. each; doz., \$7.50.

AKEBIA (Hardy)

Quinata. Quick-growing vine; small, fine-lobed, half-evergreen leaves, and purplish brown or chocolate-colored flowers, which have a delicious odor. This plant is highly desirable where a dense shade is not desired. Extra strong plants, 25c. each; doz., \$2.50; 100, \$15.00.

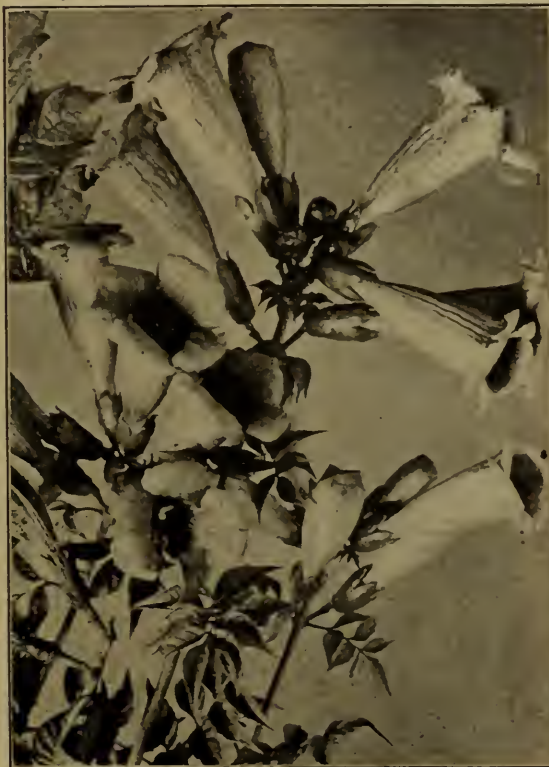
AMPELOPSIS (Hardy)

Engelmanni. Handsome dense foliage; clings readily to stone and brick walls; foliage light green in summer, changing to crimson in the autumn; very rapid grower. Strong plants, 35c. each; doz., \$3.50.

Henryana. A new and perfectly hardy beautiful variety from China, with fringed foliage, which gives it an attractive appearance. Toward autumn the foliage changes to brilliant red and shows a light colored vein. Extra strong plants, 40c. each; doz., \$4.00.

Humilifolia. A distinct species; dark glossy green foliage. In the early autumn the vine is loaded with round berries, which go through various shades of color, finally turning deep blue. This variety is very hardy. Strong plants, 50c. each; doz., \$5.00.

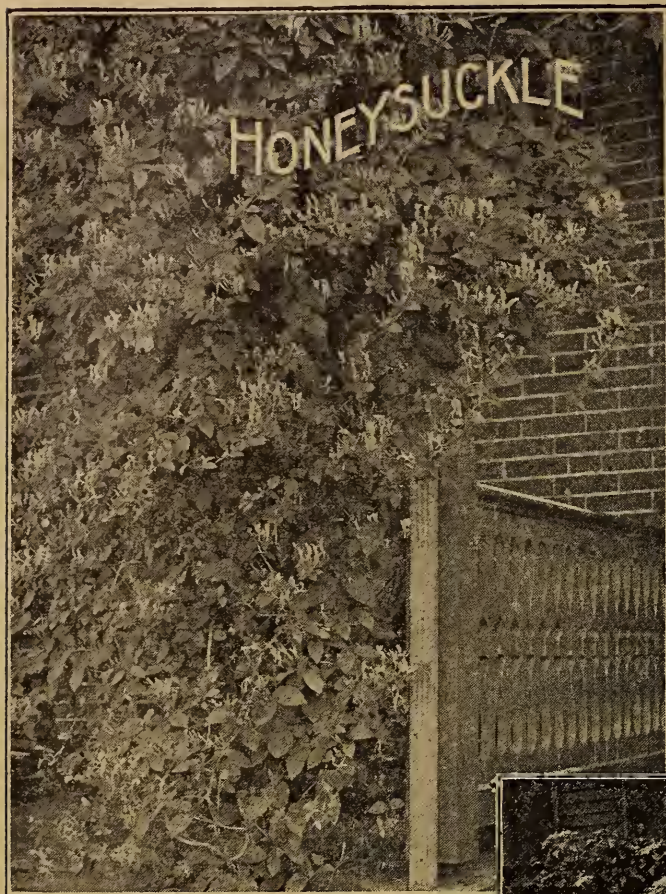
Lowii (*New Japanese Ivy*). Conceded to be a great improvement over Veitchii. It possesses every one of the merits of the latter and resembles it in many ways, except that the foliage is smaller and more finely divided. It clings to the smoothest surfaces on its own accord. Grows very rapidly, having foliage of a light green shade. In the autumn it changes to bright scarlet. Extra strong plants, 50c. each; per doz., \$5.00; \$35.00 per 100.



Bignonia Grandiflora



Kudzu Vine (see page 176)

**LATHYRUS (Hardy Sweet Pea)**

This makes an elegant show, planted against trellis, lattice or individual posts. It is one of the very few vines which produces flowers for cutting.

White Pearl. Glistening pure white; giant flower trusses which are twice the size of the ordinary variety. It flowers during most of the summer and lasts well into autumn. One of the best hardy climbing or pillar plants in commerce to-day. 30c. each; doz., \$3.00.

Latifolius Pink Beauty. Brilliant rose.

Latifolius Albus. Pure white.

Extra strong plants of the above (except as noted), 15c. each; doz., \$1.50.

LYCIUM (Matrimony Vine) (Hardy)

Barbarum. A dense growing climber, somewhat shrubby in nature. In late summer the small purple flowers are followed by a crop of red berries which remain until late winter. 25c. each; doz., \$2.50.

MOON VINES (Annuals, except where noted) (Ready April 15th)

These favorite climbers should be planted by every one, who wants a quick growing vine. The *Noctiflora* (White) and *Learii* (Blue) types have large foliage and make dense shade. All of them are suited for climbing wood and wire fences, lattice and trellis work and pillars.

Learii (Blue Dawn Flower). Enormous blooms of intense violet shade, frequently 4 or more inches in diameter, producing at times as many as 300 flowers on a stalk. Imagine a beautiful blue Morning-Glory and multiply the size several times and you have a slight conception of the Blue Moon-vine. Planted in amongst white variety, the effect is charming. The *Learii* type blooms all day. Extra strong plants, 25c. each; doz., \$2.50.

Noctiflora. A pure white variety blooming toward evening and in the forenoon; the flowers are frequently 6 inches in diameter. The vines are not hardy, but on account of their great beauty, it pays to plant them each season. Extra strong plants, 20c. each; doz., \$2.00; \$15.00 per 100.

Paniculata (Hardy). Beautiful rose-pink flowers, large in size. Extra strong plants, 25c. each; doz., \$2.50.

Special Offer.—One each of the above Moon Vines for 60c.

Plants can be best shipped via express or freight only. Parcel post shipments are generally not satisfactory. No Plants sent C. O. D. (hn)

EUONYMUS (Hardy)

Radicans Variegata. An excellent little, self-clinging vine, suitable for covering walls, stumps or rockeries, or wherever a vine of slow growing habit is desired. Leaves are small and variegated. 15c. each; doz., \$1.50; \$10.00 per 100.

Radicans Vegetus. A large-leaved form; splendid for covering high walls. On account of their dense foliage and extreme hardiness, it will take the place of English Ivy for wall covering. 25c. each; doz., \$2.50.

Kewensis. A new variety with small, dark green foliage; valuable for rockeries and for covering ground under trees. 25c. each; doz., \$2.50.

Radicans. Deep green foliage; valuable for covering low walls. 15c. each; doz., \$1.50; \$10.00 per 100.

HOP VINE (Hardy)

Golden Leaved. Identical in growth and habit as the Japanese except for foliage, which is bright yellow. 25c. each; doz., \$2.50; 100, \$15.00

Japanese. A rapid grower, with dark green foliage, and bears a profusion of seed-pods suitable for many domestic purposes. Strong pot plants, 15c. each; doz., \$1.50; \$10.00 per 100.

HONEYSUCKLE (Hardy)

Chinese Evergreen (Woodbine). Red, yellow and white variegated flowers; very fragrant; blooms the entire season.

Halliana (Hall's Honeysuckle). Flowers pure white, turning to yellow; fragrant, hardy evergreen; flowers from June until frost.

Heckrothi. Deep red flowers with yellow throat. 30c. each; doz., \$3.00.

Variegated (Aurea Reticulata). Foliage beautifully mottled yellow and green; flowers white and yellow.

Red Coral or Scarlet Trumpet. Bright red, trumpet shaped flowers. Bloom all summer. Extra strong plants, 30c. each; doz., \$3.00.

Price of any of the above, strong plants (except as noted), 25c. each; doz., \$2.50; \$18.00 per 100. Extra strong plants of the above, 50c. each; doz., \$5.00.

JASMINES (Hardy)

Splendid for sheltered positions. They will winter outside as far north as New York, if protected somewhat.

Nudiflorum. Fragrant yellow flowers before the foliage makes its appearance. 25c. each; doz., \$2.50.

Officinale. Pure white; very fragrant. 25c. each; doz., \$2.50.

KUDZU VINE (Pueraria Thunbergiana) (Hardy)

(See illustration on page 175)

It is often remarked, that this vine grows a foot a day, and those who have seen it, would believe that this has not been exaggerated. Makes a dense covering, exceedingly attractive. Towards the end of summer it produces small, rosy-purple flowers. Extra large plants, 30c. each; doz., \$3.00; \$20.00 per 100.



Climbing Hydrangea (See page 177)



Ipomea Noctiflora (White Moon Flower)

MADEIRA OR MEXICAN VINE (Hardy)

The tubers if planted deep and protected during the winter are hardy. The leaf is very deep green, and grows very dense; the flower is very small, white in color. Strong roots, 5c. each; single roots mailed free; per doz., 40c. (by mail, 50c. doz.); \$3.00 per 100.

PASSIFLORA or PASSION VINE

(Tender Perennial)



Passion Vine

In our grandmothers' time this was the most important of vines, and could probably be found in most every garden where plants were grown. It is exceedingly attractive, both for foliage and flowers. Climbs best on a trellis and produces continuously from July until frost, richly colored flowers. The plants can be taken up in the fall, cut back and wintered over, if kept in a light cool place and watered occasionally.

Pfordii. This is probably the best of the Passion Vines; even real small plants produce flower. They are shaded rich blue, edged rose pink. Extra strong plants, 25c. each; doz., \$2.50.

POLYGONUM (Hardy)

Auberti. Remarkably strong grower, which in a short time covers a large area, growing at times as much as 12 feet in one season. The white flowers are produced in great abundance on the terminals of the vine, in late summer and autumn. Extra strong plants, 75c. each; doz., \$8.00.

Baldschuanicum. A valuable addition to the hardy climbers. This variety is a strong grower and somewhat shrubby in nature. From June until autumn it is covered with panicles of light pink flowers. Extra strong plants, 75c. each; doz., \$7.50.

SCHIZOPHRAGMA (Hardy) (Climbing Hydrangea)

Hydrangeoides. In reality this is a very old variety of Climbers, having been introduced almost 50 years ago from Japan. Large white flower trusses somewhat resemble a Hydrangea and produce a remarkable display when in full bloom during July and August. It is adapted for clinging to any rough surface and particularly suited for twining about tree trunks. It is a vine that ought to be in every collection of climbers. Our stock of plants is of extra fine quality. 85c. each; per doz., \$8.50.



WISTARIA (Hardy)

No plant, vine or shrub can equal the display made by the Wistaria. It flowers in the latitude of Philadelphia during May. A strong developed vine produces hundreds of flower panicles, while no foliage is visible until after the flower is faded. The graceful effect it produces is hard to describe, the blue variety being especially attractive. They thrive best in the sun, and with an application of cow manure once or twice a season they respond marvelously by an extra growth and an abundance of flowers.

Chinensis (Chinese Wistaria). Pale blue, somewhat fragrant. Strong plants, 50c. each; doz., \$5.00.

Chinensis Alba. A beautiful white flowering form of the above. Looks especially attractive when intermingled with the blue variety. Strong plants, 50c. each; per doz., \$5.00.

STANDARD OR TREE WISTARIA

Our grower in Europe has sent us a shipment of these in both Blue and White varieties. This type of Wistaria develops into a beautiful dwarf tree, which is umbrella-shaped. At times they have been known to produce 500 flower panicles; in fact, their beauty is so wonderful, when in bloom, that it is really hard to describe.

White or Blue. Pot-grown plants; 5 to 6 foot stems. \$2.50 each; doz., \$25.00.

TRELLIS WORK FOR CLIMBING VINES OF ALL KINDS

On page 221 we list a full line of wood and wire trellis, stock sizes. Arches and upright Wire Works are supplied to order promptly.

GALVANIZED WIRE ARCHES

These can be furnished on short notice any height or any width. Made of extra heavy galvanized diamond mesh wire with strong frames to prevent sagging.

Price 25c. per square foot.



CONTINUOUS WIRE TRELLIS

Excellent for training vines of all kinds up porches, verandas, pergolas, etc. Thoroughly galvanized and well made.

Any length desired up to 150 running feet. 13 in. wide. Less than 150 ft. rolls, 13c. per ft. 13 in. wide, in roll lots, 150 ft., 10c. per ft. 19 in. wide, less than 150 ft. rolls, 15c. per ft. 19 in. wide, in roll lots, 150 ft. 12c. per ft.

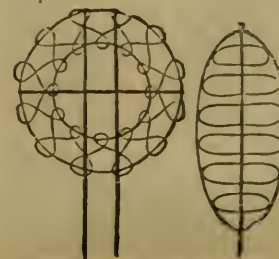


Continuous Trellis

WIRE TRELLIS

Made to Order

We are able to have made, at short notice, special sizes of wire trellis, any length and any width, at 25c. per sq. ft.



Ivy Style Trellis Oval Trellis



Wooden Veranda Trellis

*Azalea Mollis***Hardy Azaleas**

Amoena. Dwarf bushy shrub; covered in April and May with masses of purplish-red double flowers, which last from 3 to 4 weeks. The foliage remains all winter, when it takes on a coppery-red shade. 12 inch diameter heads. \$1.00 each; per doz., \$10.00; \$80.00 per 100.

Anthony Koster. A type of the Mollis variety, with exceptionally large flowers of a golden orange. The color is very bright and the sort is considered the best of the Mollis varieties; flowering in May; plants with 12 to 15 buds. \$1.25 each; per doz., \$12.00; \$90.00 per 100.

Mollis. Of dwarf bush-like habit, with light green leaves. The flowers are as large as the Azaleas, usually seen in greenhouses. There are but three colors of it, yellow, orange and red; it blooms about the middle of May. When massed in a large bed they create a particularly beautiful spot; mixed colors. Plants, 15 to 18 inches. 75c. each; per doz., \$7.50; \$55.00 per 100.



Our stock in this Department is extra fine. In the majority of cases, specimens are so large that it is impracticable to mail them. Therefore we recommend shipping small lots by express, large numbers by freight. Flowering shrubs are all of a size to bloom the first season after planting. Shipping season April 1st to May 15th and October to December.

**HARDY AZALEAS (Continued)**

Hinodegiri. A much more brilliant variety than Amoena. Grows 2½ feet high and is literally smothered with masses of bright, fiery red single flowers in April and May. Strong plants, 12 in. diameter. \$1.25 each; doz., \$12.50; 100, \$85.00.

Hinamayo. Delicate deep pink flowers. This looks well planted among the Amoena and Hinodegiri varieties. 8 to 10 inch; well-budded plants. \$1.25 each; doz., \$12.00; \$80.00 per 100.

Japonica Alba. Pure white large flowers, very showy among bright colored flowering shrubbery. 12 to 15 inch plants. \$1.00 each; doz., \$10.00; \$80.00 per 100.

J. C. Van Tol. A type of the Mollis variety, but much larger, flowering bright red; a fine contrast when planted with A. Koster variety; plants with 20 to 25 buds. \$1.00 each; doz., \$10.00; \$75.00 per 100.

Yodogama. In May this variety is a mass of lavender pink; flowers very distinct; plants, with 12 to 15 buds. \$1.00 each; doz., \$10.00; \$75.00 per 100.

Hardy Rhododendrons

They require good garden soil. It is advisable to protect with leaves or brush during winter. When Rhododendrons have finished blooming, the old flower should be cut off; this ensures blooms the following season. The varieties offered below are a selection of the best and hardiest.

Album Elegans. Pure white, gigantic flower heads.

Caractacus. Crimson or blood red, a handsome shade.

Chas. Dickens. Red, a shade between light and dark.

Chas. S. Sargent. Rich crimson.

Everestianum. Lavender, very delicate and of great beauty.

Fastuosum (Double). Lavender; very large flower heads.

Kettledrum. Deep red or rich purplish crimson.

Roseum Elegans. Rose pink, large flowers.

Price of any of the above, 18 to 24 inches high, with plenty of buds, \$1.50 each; per doz., \$15.00; \$100.00 per 100.

Price of any of the above, 24 to 30 inches high, extra heavy, \$2.25 each; doz., \$20.00.

We are prepared to quote prices on car lots of native Rhododendrons for large plantings.

Amygdalus (Flowering Almond)

Rubra Flore Pleno Nana. Erect, slender branches, which are covered in May with small, very double, fragrant, pink flowers. Strong plants, 1½ to 2 feet. 60c. each; doz., \$6.00.

Amorpha (False Indigo)

Fruticosa. A strong growing shrub, from 6 to 7 feet high, with terminal panicles of pretty, odd and attractive bluish-purple flowers in July. Desirable on account of the unusual color of the flowers and attractive compound leaves. 35c. each; doz., \$3.50.

Altheas (Rose of Sharon)

These thrive almost anywhere, producing their bloom from July till September.

Alba Plena. Pure white; double.

Atropurpurea Plena. Double purple.

Coerulea Plena. Double blue.

Duchess de Brabant. Double; deep red.

Grandiflora Superba. Double blush with crimson centre.

Totus Albus. Single; pure white.

Price of any of the above in strong plants, 2 to 3 feet high. 35c. each; per doz., \$3.50; \$25.00 per 100.

Azaleas (See page 178)**Berberis** (Japanese Barberry)

Thunbergii. A good, hardy plant of low, dense growth for lawn or border. The slender branches are prickly with small thorns, and tend to make a defensive hedge that few animals will attempt to penetrate. In autumn the foliage is a bright crimson; when it falls, a profusion of scarlet berries, which remain throughout the winter, are revealed on the branches.

	Doz.	100	1000
1 to 1½ feet (plant 8 to 10 inches apart).	\$1.75	\$12.50	\$100.00
1½ to 2 feet (plant 10 to 12 inches apart).	2.00	15.00	120.00
2 to 2½ feet (plant 12 inches apart)	4.00	27.50	200.00

Atropurpurea (Purple Barberry). Of erect growth, with purplish foliage. Small yellow flowers followed in the autumn with red berries, 2½ to 3 feet. 25c. each; doz., \$2.50; \$18.00 per 100.

Buddleya (Butterfly Bush)

Variabilis Magnifica. Flowers continuously all season. The flower racemes are composed of many little blossoms in the shape and color of lilacs. This variety is entirely separate and distinct from *Buddleya Veitchiana*, which at times is referred to as "Butterfly Bush." Our trials of the two have shown "Magnifica" to be much superior. Strong plants, which will flower the first year, 25c. each; \$2.50 per doz.

Calycanthus (Sweet Shrub or All Spice)

Floridus. Chocolate-colored double flowers, with a peculiar, agreeable odor. Blooms in June. 30c. each; doz., \$3.00.

Cerasus (Flowering Cherry)

Double White. Numerous white flowers conceal the branches in May; 4 to 5 feet. \$1.50 each.

Double Pink. Beautiful shade of pink; splendid for lawn decoration; 3 to 4 feet. \$1.75 each.

Cytisus (Golden Chain)

Laburnum. A large shrub with shining green leaves and long, drooping racemes of yellow flowers, which appear in early summer; 3 to 4 ft. plants. 50c. each; doz., \$5.00.

Clethra (Sweet Pepper Bud)

Alnifolia. Of low and dense growth; has numerous spikes of small white fragrant flowers appearing in July; desirable for moist places or along water edges. 30c. each; doz., \$3.00.

Cercis (Judas or Red Bush)

Canadensis. A tall slender growing shrub, developing eventually into a large tree. Very early in the spring the leafless branches are covered with delicate deep pink flowers; 3 to 4 foot plants. 60c. each; doz., \$6.00.

Chionanthus (White Fringe)

Virginica. In May and June the tree is covered with long, fluffy panicles of fine white bloom. Strong plants; 2 to 3 feet. 35c. each; doz., \$3.50.

Cornus (Dogwood)

This plant is so well known, that it hardly needs description. The flowers appear before the foliage in May. In the autumn takes on a rich crimson shade.

Florida (White Flowered Dogwood). Strong plants; 2 feet. 35c. each; doz., \$3.50.

Rubra (Pink Flowered Dogwood). 2 ft. 60c. each; doz., \$6.00.

Exochorda (Pearl Bush)

Grandiflora. A profuse bloomer in the early summer. Flowers star shaped, sometimes an inch in diameter; pure white. 2 to 3 feet. 35c. each; doz., \$3.50.

Eleagnus (Japanese Oleaster)

Longipes. A desirable nearly evergreen shrub of medium height, with light green foliage, which is silvered on the under surface. The orange-scarlet colored berries are very attractive during late summer. 30c. each; doz., \$3.00.

Erica (Heath)

This is a species of Heather, which flowers in July, and is a mass of bloom at that time.

Vulgaris. Rosy red flowers.

Alba. White.

Strong plants of the above, 40c. each; doz., \$4.00.

**Deutzia**

The Deutzias are among the most useful of our summer flowering shrubs. For planting either individually or in masses they are very attractive. They can be used for cut flowers.

Candidissima (Fl. pl.). Abundant racemes of double, pure white flowers in June, luxuriant foliage and fine habit. 2 to 3 foot plants.

Crenata (Fl. pl.). Double flowers white, tinged with rose, blooming in June; 2 to 3 feet. Plants, 18 to 24 inches.

Gracilis. Of dwarf, bushy habit. White flower.

Lemoinei. Very dwarf and compact growing, with very large flowers of purest white. One of the best of the Deutzias. Plants, 12 to 18 inches.

Price of the above (except where noted), 30c. each; doz., \$3.00.

Forsythia (Golden Bells)

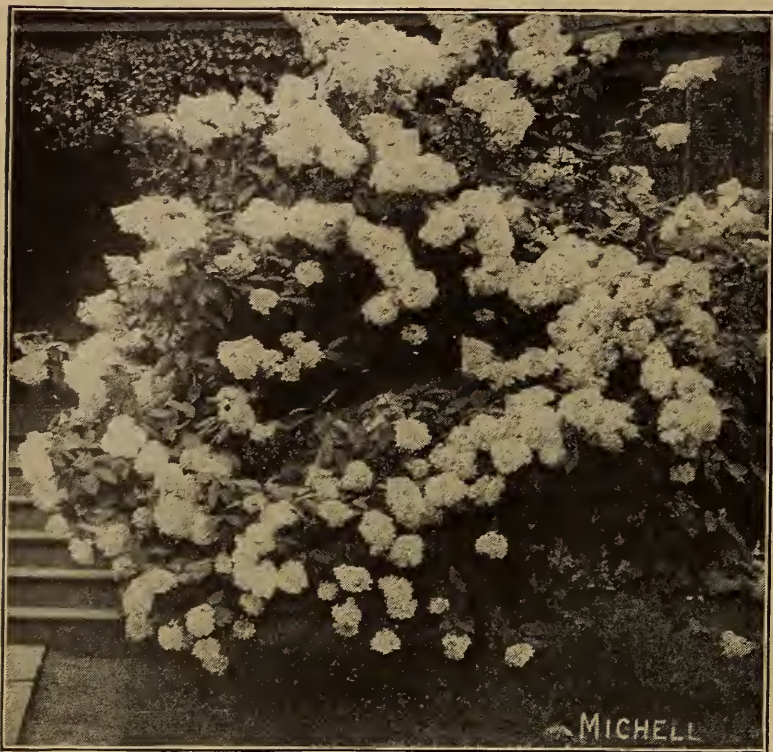
Bright golden yellow, star-shaped flowers burst into bloom just as winter is leaving and while the bush is otherwise bare. In fact, when in flower, nothing else but bloom can be seen.

Fortunei. Erect growing with dark green foliage; strong plants.

Suspensa. Of graceful drooping habit, can also be trained for covering arches and trellis work. Plants, 2 to 3 feet.

Viridissima. Of erect growth and spreading branches, narrow glossy foliage; one of the first to bloom. 2 to 3 feet plants.

Price of any of the above Forsythias, 30c. each; doz., \$3.00.

*Hydrangea Paniculata Grandiflora***Hydrangea**

Arborescens Grandiflora Alba (*Snowball Hydrangea*). The snow-white blooms are of the largest size. Coming into flower early in June and lasting until late August. Is more hardy than any other sorts and especially suited to plant in shaded places. 30c. each; \$3.00 doz.

Paniculata Grandiflora. The large panicles of white flowers are at their best during August; later they take on a reddish cast. These plants look fine used as single specimens on the lawn or grouped in large beds. Strong bush form plants, 30c. each; per doz., \$3.00. Extra strong stock, 50c. each; per doz., \$5.00.

Paniculata Grandiflora (*Standard or Tree Shaped*). These are fine, planted as individual specimens in the lawn or in the center of beds, containing other plants. Stems, 2 to 2½ feet long with shapely heads. 75c. each; per doz., \$8.00.

Hydrangea (*Ōtaksa Varieties*) (see page 136)

Kalmia (*Mountain Laurel*)

For planting in conjunction with Rhododendrons and Evergreens, the Laurel fills an important part. Foliage is evergreen and about May and June, according to locality, the plant is a mass of flowerheads, resembling somewhat the Rhododendron.

Latifolia. A delicate pink, changing to white as they expand. Grows best in woodland or under trees. Strong plants, 18 to 24 inches. \$1.00 each; per doz., \$10.00; \$75.00 per 100.

Kerria (*Globe Flower or Corchorus*)

Shrubs with light green branches. Does well in any soil, in shaded or open locations flowering in May and June.

Double-flowered. Of medium size; double yellow flowers. Plants, 2 to 3 feet high. 35c. each; per doz., \$3.50.

Lonicera (*Honeysuckle*)

Morrowi (*Japanese Bush Honeysuckle*). An open bush with irregular branches. The foliage is dark green with small white flowers, which appear during May. During the late summer and early autumn the plant is covered with bright red berries. Plants, 2 to 3 feet.

Tartarica (*Tartarian Honeysuckle*). An old-fashioned useful shrub with small fragrant flowers, some pink, others crimson and blush. These are followed by attractive reddish-orange berries. Plants, 2 to 3 feet.

Price of the above *Loniceras* 30c. each; doz., \$3.00.

Philadelphus (*Mock Orange or Orange Blossoms*)

A shrub that can always be depended upon to give splendid satisfaction. No insects bother it, and in May and June, the bushes are literally covered with flowers.

Coronarius. Handsome foliage and beautiful white flowers, quite fragrant. Plants, 2 to 3 feet.

Grandiflorum. A tall growing white variety, robust grower. Plants, 2 to 3 feet. 25c. each; doz., \$2.50.

Lilac (*Syringa*) (See illustration on page 181)

Description of this is hardly necessary to be given, as this is favorably known to most everyone

Pot-Grown Plants Suitable for Forcing.

Chas. X. Large reddish purple with heavy trusses.

Marie Le Grey. Single, pure white, of wonderful fragrance.

Mme. Casimir Perier. Double, pure white, with large individual flowers of exquisite odor; grand for cutting.

President Grevy. Large panicles; double blue flowers; very fine.

Souvenir de Louis Spaeth. Deep purplish-red flowers in compact trusses.

Price of any of the above pot-grown Lilacs in extra strong fine plants, \$1.25 each; per doz., \$12.50.

Field-Grown Plants. (See above for description.)

Charles X, Marie Le Grey, Mme. Casimir Perier, President Grevy, Souvenir de Louis Spaeth.

Extra strong plants of the above, field grown, 50c. each; doz., \$5.50.

Vulgaris. Common purple, sweet-scented Lilac. 30c. each; doz., \$3.25.

Vulgaris Alba. Pure white type of the above, but more fragrant. 30c. each; doz., \$3.25.

White Persian. Very early flowering; pure white, sweet scented. 40c. each; doz., \$4.00.

Persian. Early purple flowering; very profuse. 40c. each; doz., \$4.00.

Strong plants of the above, 18 to 24 inches high, at the prices noted.





For List of Lilacs see opposite page

Prunus

Pissardi (*Purple-leaved Plum*). A tree-like shrub with dark purple leaves that keep their lustrous colored foliage right up till frost, having small pinkish white flowers in early spring. Plants, 4 to 5 feet. 35c. each; doz., \$3.50.

Triloba (*Double-flowering Plum*). Double pink flowers in April. The plants are 2 to 3 feet high. 40c. each; doz., \$4.00.

Pyrus

Japonicus (*Japan Quince*). This shrub is a beautiful sight, when covered in the early spring with cherry-red flowers about the size of an apple blossom. After the flowers fall, many of them set fruit, which is edible, making the finest Quince Jelly for preserves. This plant can also be used for hedge effects, and on account of the thorny nature it is a good barrier against cats, dogs and other animals. Extra strong plants, 35c. each; doz., \$3.50.



A Pot Grown Japanese Dissectum Maple can develop into a beautiful specimen like this for the lawn.

Maples (Japanese) (*Acer Japonicum*)

Hardly anything in plants or shrubs is more attractive than these, especially in the early spring, just after they burst into foliage. For planting in groups, in shaded positions or even in the full sun, they are especially adapted, or as individual specimens on the lawn or in borders they are fine.

Japonicum Atropurpureum. Red leaved Japan Maple. Very fine foliage, which becomes more intense red, as the season advances, at times these revert again in the growing season, but as the plants become older, the fixed color of red becomes more permanent. Extra strong plants, in pots, 18 to 24 inches high, \$1.25 each.

Japonicum Dissectum. Dark red, very fine cut fernlike foliage; the plants have a low, spreading habit. Strong plants, in pots, 18 to 24 inches. \$1.25 each.

Aureum. A delicate shade of greenish yellow, which varies somewhat during the season. This, massed amongst others with dark foliage is a treat for the eye. Extra strong plants, in pots, 18 to 24 inches, \$1.25 each.

Rhus (Purple Fringe or Smoke Tree)

Cotinus. In July this is made very attractive, because of the light, airy or mistlike panicles of dark purplish blooms. Strong plants, 2 to 3 feet, 35c. each; doz., \$3.50.

Rhododendrons (See page 178)



Spirea Prunifolia (*Bridal Wreath*)

Spirea

This group embraces a wide variety, so much so that frequently one might suppose that the plants belong to a different family, from this it can be seen that a collection of them will make an effective variety.

Anthony Waterer. Of dwarf, dense habit, bearing a profusion of crimson flowers. 2 to 3 feet, 30c. each; per doz., \$3.00.

Opulifolia Aurea. Bears an abundance of fragrant white flowers in clusters during June; the leaves are golden in spring but darken as the season advances. Plants, 2 to 3 feet, 30c. each; doz., \$3.00.

Prunifolia (*Bridal Wreath*). The pretty double white flowers are all along the almost leafless stem about May 1st just as the leaves are budding. Plants, 2 to 3 feet, 30c. each; per doz., \$3.00.

Van Houttei. This handsome species is the most desirable. The exceedingly beautiful white flowers appear in May in great profusion, a strong, robust grower. It is of compact habit and a beautiful ornament for the lawn. Plants, 2 to 3 feet, 30c. each; per doz., \$3.00.

Thunbergii. A graceful bush, bearing in April and May innumerable small, white flowers with dainty foliage. Plants, 2 to 3 feet, 35c. each; doz., \$3.50.

Reevesii Flore Plena. Double flowers in May and June, which last several weeks longer than most other varieties, making one of the best flowering shrubs. Pure white, 2 to 3 feet, 30c. each; doz., \$3.00.

Shrubs can best be shipped via express or freight. No Plants sent C. O. D.

ha)

MICHELL'S FLOWERING AND DECORATIVE HARDY SHRUBS

Sambucus

Aurea (*Golden Elder*). Attractive by its golden foliage and desirable to mix with other shrubs to relieve the sombreness of green. 30c. each; doz., \$3.00.

Racemosus (*Red Berried Elder*). A robust growing shrub of easy cultivation. Attractive throughout the season. The white flowers, which appear in the spring, are followed by bright red berries in autumn. 30c. each; doz., \$3.00.

Symphoricarpus

Racemosus (*Snowberry*). Small red flowers are succeeded by many white berries, remaining on the plant through half the winter; 2 to 3 feet plants. 30c. each; doz., \$3.00.

Staphylea (Bladder Nut)

Colchica. A tall growing shrub, flowering in May; the pure white flowers are very attractive and fragrant, produced in clusters. 35c. each; doz., \$3.50.

Tamarix

Tall growing shrubs of irregular shape, with fine feathery foliage. The branches are covered with small delicate flowers, and even, when not in bloom, the bush is attractive.

Africana. Pink flowers, blooming in May.

Hispid Aestivalis. Pink flowers, borne in July and August, when other shrubs are out of bloom.

Indica. A strong growing variety, bearing delicate pink flowers.

Price of Tamarix, extra strong plants, 30c. each; doz., \$3.00.



Viburnum

Carlesi. A new Japanese variety of a compact bushy habit, bearing sweet-scented white flowers, somewhat after the style of a Bouvardia. This is a splendid addition to the Viburnums on account of its great beauty and its exquisite odor. It should be included in every collection of flowering shrubs. 75c. each; doz., \$8.00.

Plicatum (*Japanese Snowball*). A desirable shrub. Should be in every garden or on the lawn; perfectly hardy, blooming in June. Extra fine plants, 2 to 3 feet. 35c. each; doz., \$3.50.

Viburnum Opulus Sterilis (*Guilder Rose or Snowball*). Of spreading habit, bearing flat clusters of single white flowers, which afterwards produce brilliant red berries, which hang to the plant all winter; very decorative. Strong plants, 2 to 3 feet. 30c. each; doz., \$3.00.

Vitex (Chaste Tree)

Agnus Castus. Attractive, graceful shrub, growing about 6 feet high. Towards end of summer it produces spikes of lilac shaded flowers. 30c. each; doz., \$3.00.



Weigelia

Amabilis. A pink flowering variety, in bloom during June and July; extra strong plants, 2 to 3 feet, 30c. each; doz., \$3.00.

Candida. Flowers abundantly in June and July, additional bloom is also shown during the autumn months. The tube-shaped flowers are pure white; fine for cutting. Plants, 2 to 3 feet. 30c. each; doz., \$3.00.

Eva Rathke. Of erect form and vigorous habit. The deep carmine-red flowers are the best of the red-flowering sorts. 30c. each; doz., \$3.00.

Rosea. Fine rose-colored flowers, considered one of the finest of flowering shrubs. Blossoms in May. Plants, 2 to 3 feet. 30c. each; doz., \$3.00.

SPECIAL OFFER

COLLECTION OF HARDY FLOWERING SHRUBS

For those who are uncertain as to the proper selection of desirable shrubs we offer in our selection:

Collection No. 1. 6 flowering shrubs, 6 choice sorts, our selection of varieties, total \$1.50.

Collection No. 2. 12 flowering shrubs, 12 choice sorts, our selection of varieties, total \$2.75.

These collections of Shrubs **cannot** be sent by parcel post, shipment by express or freight enables us to send larger plants.

Shrubs Travel Best by Express or Freight. No Plants Sent C. O. D.

(hn)

EVERGREENS (Ready after April 15th)

These can be safely transplanted at any time during spring, summer or autumn months; they are grown in baskets and thoroughly established. For window or porch box and massing effects in beds or borders, they are quite an attraction. For window garden effects, either in summer or winter, they make a city dwelling look cozy and inviting. We have listed the most popular kinds, in order to give customers, who desire to use these, a variety to select from.

Abies Concolor (Colorado Fir). 18 to Each
24 in.....\$1.50
Abies Nordmanniana (Nordman's Fir).
18 to 24 in..... 1.50
Abies Pinsapo Glauca (Spanish Fir).
12 to 18 in..... 1.50
Juniperus Pfitzeriana. 12 to 18 in..... 1.25
Juniperus Virginica Glauca (Blue Cedar). 18 to 24 in..... 1.50
Juniperus Japonica Aurea (Golden Japan Cedar). 12 to 18 in..... 1.50
Picea Alcockiana (Alcock's Spruce).
18 to 24 in..... 1.50



Picea Excelsa (Norway Spruce)

" **Excelsa** (Norway Spruce). 18 to 24 in... 1.50
" **Inversa** (Weeping Spruce). 18 to 24 in... 1.50
" **Pungens Glauca Kosteri Compacta** (Blue Spruce). 12 to 15 in..... 1.50
18 to 24 in..... 2.50
24 to 30 in..... 4.00

Retinospora Pisifera Filifera. 18 to 24 in..... 1.75
" " **Aurea**. 18 to 24 in..... 1.75
" " **Plumosa Aurea** (Golden Japan Cypress). 18 to 24 in..... 1.50
Thuja Orientalis Aurea (Golden Chinese Arbor Vitae). 18 to 24 in..... 2.00
Thuja Lutea (Golden Arbor Vitae). 18 to 24 in. 1.25
Thuja Standishii (Arbor Vitae). 15 to 18 in.... 1.25
Taxus Cuspidata Brevifolia (Yew). 12 to 18 in. 1.75

BAY TREES (*Laurus Nobilis*) (Ready after Apr. 15)

We have a limited number of choice Standard Bays on hand that can be used to advantage in decorating gardens. These arrived from Belgium this spring and are in extra fine condition. Our supply is confined to the standard or tall shaped plants as per illustration. Plants are grown and established in tubs. Any of the following will make handsome effects on the piazza, on the lawn or under pergolas.

Standard or Ball-Shaped.

24 inch stem, 22 to 24 inches diameter.....
45 inch stem, 24 to 26 inches diameter.....
45 inch stem, 32 to 34 inches diameter.....
38 inch stem, 38 to 42 inches diameter.....

Owing to complications in Belgium, it is doubtful if our stock of these arrives, so we have omitted prices.

STANDARD PRIVET TREES

These resemble from the distance, when in foliage, a Bay Tree or Box Tree. The stems are about 4 feet high, the crowns about 15 inches in diameter. With an occasional shearing or trimming during the first season, the heads can be shaped perfectly, the same as a Privet Hedge. In the early spring the plants are dormant, but break into foliage about May.

Shipment is made in wooden tubs; care should be taken to water them liberally in dry weather if left in tubs. \$1.50 each.

BOXWOOD (Ready after April 15th)

These are fine for planting out as individual specimens in the lawn or along paths and drives. We have imported a large number of these desirable plants in pyramidal form, in natural or untrimmed state, and ball shapes. The untrimmed plants can be used for hedge effects, as individual specimens in porch or window boxes.

Ball Shaped.

These are effective for vestibule and garden decoration.
12 inch diameter.....each \$2.50
15 inch diameter.....each 3.00

Pyramidal Shaped Boxwood (in Tubs).

2½ ft. high. each \$2.50 | 4 ft. high..each \$4.00
3 ft. high. each 3.25 | 5 ft. high..each 7.50
3½ ft. high. each 3.50

Tree Shaped.

Attractive when placed along garden walks under pergolas, on verandas, etc.
18 to 24 inch stems, 15 inch head....each \$2.50
18 to 24 inch stems, 18 inch head....each 3.50

Bush Shaped Untrimmed Boxwood.

10 inches high, 40c. each; dozen, \$4.00.
12 inches high, 50c. each; dozen, 5.00.
15 inches high, 75c. each; dozen, 7.50.
18 inches high, \$1.00 each; dozen, 10.00.
24 inches high, 1.75 each; dozen, 18.00.

BOXWOOD (For Edging) (see page 188)

Evergreens are always an attraction—plant some

(ha)



Standard Bay Tree



Tree Shaped Boxwood



Pyramidal Box



Untrimmed Boxwood

MICHELL'S EVERGREENS

Evergreens are growing more and more in favor and are desirable in all plantings, adding a tone of warmth and imparting a charm to landscape. Our Evergreens are produced for us on contract by a reliable grower, and are carefully grown, having been given plenty of space to develop, have been many times transplanted and sheared, and should not be compared with freshly imported, poorly rooted and ill-shaped stock frequently offered.

Note.—Evergreens cannot be sent by parcel post, but can be forwarded only by express or freight at purchaser's expense.

ABIES (Fir)

Abies Cephalonica (*Cephalonian Fir*). Large size, broad for its height while young, then pyramidal, leaves silvery and dagger-shaped with a spine on the point. Generally hardy. 2 to 2½ feet, \$3.00; 3 to 4 feet, \$8.00.

A. Concolor (*Silver Fir of Colorado*). Tree of graceful habit; broad, handsome foliage, bluish above, silvery beneath. A grand tree, very distinct and exceedingly rare as yet. 2 to 3 feet, \$4.00; 3 to 4 feet, \$6.00; 5 to 6 feet, \$10.00.

A. Nordmanniana (*Nordmann's Silver Fir*). Slow growth, hardy, eventually large, dark green, massive foliage, silvery underneath, broad and compact. Valuable for landscape effects or for planting, as a specimen tree. 2 to 3 feet, \$4.50; 3 to 4 feet, \$6.00; 5 to 6 feet, \$10.00.

A. Veitchii (*Veitch's Fir*). Slender pubescent branches covered with leaves of a beautiful dark green above and silvery white beneath. Very hardy in our Northern States. 2½ to 3 feet, \$3.00; 3 to 4 feet, \$5.00; 4 to 5 feet, \$8.00.

CRYPTOMERIA

Japonica Lobbi Compacta (*Dwarf Japan Cedar*). A handsome Japanese Conifera of pyramidal outline. Extremely hardy, and should be in every collection. 2 feet, \$3.00; 3 feet, \$4.00.

JUNIPERUS (Juniper)

Juniperus Japonica (*Japanese Juniper*). A dense bushy grower, with light green and glaucous foliage. 3 to 4 feet, \$3.50.

J. Japonica aurea (*Golden Japan Juniper*). Similar in outline and habit to above, with a deep golden coloring that persists even in winter. 10 to 12 inches, \$2.00; 1 to 2 feet, \$3.00.

J. Hibernica (*Irish Juniper*). A tall, columnar tree, with glaucous green foliage. It is very useful in formal planting, screenings for small yards and cemeteries. 1 to 2 feet, \$1.00; 2 to 3 feet, \$2.00.

J. Sabina procumbens, or prostrata. A low growing, prostrate, spreading shrub, branching close to the ground. Foliage deep dark green. Much used in rockwork and upon light soils. 1½ feet, \$2.50; 2 to 2½ feet, \$3.50.

J. Virginiana (*Red Cedar*). A familiar tree, of medium size and pyramidal habit. It is extremely hardy, and thrives even in barren places, where other trees will not grow. 2 to 3 feet, \$2.50; 3 to 3½ feet, \$3.50.

Juniperus Virginiana Glauca (*Blue Virginia Cedar*). A very ornamental variety, with rich, silvery-blue foliage; keeps color well throughout the entire year. One of our finest blue trees. 2½ feet high, \$3.00; 3 to 4 feet, \$4.50.

Juniperus Chinensis Argentea Variegata. An attractive medium-sized variety, with very dense, bluish-green foliage, interspersed with sprays of silvery-white. 3 feet high, \$3.50.

Juniperus Pfitzerianus. A beautiful new form, with graceful dark green foliage. We consider this one of the most substantial and attractive of the new evergreens. 2½ feet high, \$3.50; 3 to 4 feet, \$5.00.

Juniperus Virginia Scotti. More dense in growth than the common form, making a beautiful compact specimen, with rich green foliage. Plants, 2½ to 3 feet, \$3.00; 3 to 4 feet, \$5.00.

Juniperus Virginiana Stricta. A very distinct form of broadly pyramidal habit, with dense foliage of rich metallic blue. It is absolutely hardy and the most valuable of all the Junipers. 1½ feet, \$2.00; 2 feet, \$2.50; 2½ feet, \$3.00.

J. Suecica (*Swedish Juniper*). Foliage light green; very compact. Ultimate height, 10 feet. 18 to 24 inches, compact, \$1.00; 15 to 18 inches, compact, 75c.

PICEA (Spruce)

P. Alcockiana. A beautiful tree, the underside of the foliage being of a silvery-blue color. An excellent tree for a specimen on the lawn. 2 to 3 feet, \$3.00; 3 to 4 feet, \$5.00.

P. Canadensis (*Hemlock Spruce*). A medium-sized tree, with open, pendulous branches, whose graceful character is in striking contrast to some of the more stiff and formal conifers. It is a rapid grower, very hardy and not particular as to soil. If trimmed it becomes dense and bushy, making beautiful hedges. For tall screens, massing, or as individual trees upon large or small grounds, their grace and beauty is unsurpassed. 2 to 3 feet, \$2.50; 3 to 4 feet, \$3.50; 4 to 5 feet, \$5.00.

SPECIAL NOTICE

We spare no effort to supply trees of the best quality in first class living condition. On account of the many causes beyond our control we regret we cannot guarantee this stock to live and establish itself, as that is usually entirely within the power of the buyer or planter. If customers desire us to guarantee trees and shrubs to live we will assume such guarantee at an advance of 25 per cent. over and above our usual prices, but not otherwise.

PICEA (Spruce) Continued

P. excelsa (*Norway Spruce*). Rapid growing; does well in most soils, and withstands the bleak, cold winds of winter. It is highly valued for shelters, windbreaks or hedges. 2 to 2½ feet, \$1.00; 2½ to 3 feet, \$1.50; 4 to 5 feet, \$3.00.

P. Fraseri (*Fraser's Silver Fir*). Very hardy and much resembling the Balsam Fir, only richer looking and of more permanent beauty. 2 to 3 feet, \$2.50; 3 to 4 feet, \$3.50.



Picea Canadensis (Hemlock Spruce)

P. orientalis (*Oriental Spruce*). Slow growth, but tall, compact, straight and spiral, with deep shadows; dark, small, shining green foliage. Very hardy. 12 to 18 inches, \$2.00; 2 to 3 feet, \$4.00; 3 to 4 feet, \$5.00; 4 to 6 feet, \$8.00.

P. pendula (*Weeping Spruce*). Distinct, lighter foliage; a weeping form of Norway Spruce. 3 to 4 feet, \$5.00.

P. pungens glauca (*Colorado Blue Spruce*). It is hardy, vigorous, long-lived and upright in habit. For color contrasts in groups of evergreens, or as ornaments to any lawn, they stand without a peer. 1 foot, \$1.50; 2 feet, \$3.00; 3 feet, \$5.00; 4 feet, \$7.50. Select specimens, \$10.00 to \$25.00.

P. Douglasii glauca (*Douglas' Blue*). Of conical habit with spreading branches of rapid growth and rich steel blue foliage which rivals in beauty the celebrated Koster's Colorado Blue Spruce. 2 feet, \$3.00; 3 feet, \$4.00; 4 feet, \$5.00.

P. Kosteriana (*Koster's Blue Spruce*). In this new variety the color is a deeper, richer blue. It is the highest type of Blue Spruce and one that cannot be too highly recommended. This is one of the finest ornamental evergreens ever introduced, and a specimen or two, of the kind of trees we furnish, on the lawn, adds a dignity and beauty to it hard to describe. 1 to 1½ feet, \$2.50; 1½ to 2 feet, \$3.50; 2 to 3 feet, \$7.00; 4 to 5 feet, \$10.00 to \$15.00 each.

PINUS (Pine)

- P. Cembra** (*Swiss Stone Pine*). A very hardy and handsome Pine, with short, bluish green leaves, that grows slowly into a compact pyramidal tree. It branches symmetrically, even at the base, and makes a beautiful ornament for small places or for contrasting with other evergreens. 12 to 18 inches, \$2.50; 2 to 2½ feet, \$3.50.
- P. excelsa** (*Bhotan Pine*). In general appearance resembles the White Pine. The soft, long needles are light green, and droop in graceful fringes from the long, slender branches. 2 to 3 feet, \$3.00; 3 to 4 feet, \$4.00; 5 to 6 feet, \$8.00.
- P. Mugus** (*Mugho Pine*). Low growing, broad spreading tree. It is more of a large Pine bush than a tree, and is very ornamental. 1 to 2 feet, \$2.50; 2 to 3 feet, \$5.00.
- P. Strobus** (*White Pine*). The most common and quickest-growing of the Pines. Develops into a tall, noble tree whose ruggedness in old age is picturesque and grand. The needles are soft and silvery green; the horizontal branches are in regular whorls about the trunk, making the young trees symmetrical, open pyramids. 1 to 2 feet, \$1.50; 2 to 3 feet, \$2.50; 3 to 4 feet, \$4.00.

RETINISPORA (Japan Cypress)

- Retinispora filifera** (*Thread-Branched Retinispora*). Of pyramidal outline, with horizontal branches and drooping, deep green foliage. 2 to 3 feet, \$3.50; 3 to 4 feet, \$5.00; 4 to 6 feet, \$8.00.
- R. filifera aurea** (*Golden Thread Branched Japan Cypress*). A form of *Retinispora filifera*, the foliage of which is a bright golden color, and the growth somewhat dwarfer. Particularly valuable for its striking color. 2 feet, \$3.50; 3 feet, \$5.00.
- R. obtusa aurea**. Similar in character to the preceding, with a clear golden colored foliage that is bright and fresh all the year. 12 to 18 inches, \$3.00; 18 to 24 inches, \$5.00; 3 feet, \$7.50.
- R. obtusa nana**. A slow-growing dwarf variety that attains great age. It is popular in Japanese gardens, and attracts much attention here. 12 to 18 inches, \$3.50; 18 to 24 inches, \$5.00.
- R. plumosa aurea**. The most popular and generally useful of all the golden evergreens. In character it resembles *R. plumosa*. Is especially ornamental, and the soft plume-like golden foliage is particularly bright in Spring. When pruned it becomes symmetrical and regular. It is low branched, and the golden yellow foliage brushes the green grass in beautiful contrast. A vigorous grower and unsurpassed for color effect in grouping. 12 to 18 inches, \$1.00; 2 to 3 feet, \$2.50; 3 to 4 feet, \$4.00; 4 to 5 feet, \$6.00.
- R. Plumosa** (*Plume-like Retinispora*). Of conical outline with light, feathery green foliage. It stands shearing well, and if frequently pruned becomes compact and dense. It is useful in groups, beds, or for vases and window boxes. 12 to 18 inches, \$1.00; 2 to 3 feet, \$2.50; 3 to 4 feet, \$4.00.
- R. Pisifera** (*Pea-Fruited*). Smaller than *R. obtusa*, with fine feathery foliage; branches glaucous underneath. A distinct and beautiful variety. 2 to 3 feet, \$2.50; 3 to 4 feet, \$4.00.
- R. pisifera aurea**. A variety of the preceding. Growth tessellated and very wavy; vigorous habit; foliage rich golden and permanent. 2 to 3 feet, \$3.00; 3 to 4 feet, \$4.00; 4 to 5 feet, \$6.00.
- Retinispora** (*Flavescens variegata*). Golden in appearance. The habit is dwarf and compact, and its ball-like form makes it a pretty little ornament in many places. 1½ to 2 feet, \$1.50; 2 to 2½ feet, \$3.00; 2½ to 3 feet, \$5.00.
- R. suarrosa Veitchii**. Possesses the merits of *R. plumosa*, resembles it in character, and is useful in the same ways. The foliage is feathery and of a rich, silvery glaucous or steel-blue that contrasts finely with the dark green and golden tints of other varieties. 1 to 2 feet, \$1.50; 2 to 2½ feet, \$3.00; 3 to 4 feet, \$5.00; 5 to 6 feet, \$8.00.

SCIADOPITYS (Umbrella Pine)

- Sciadopitys verticillata** (*Umbrella Pine*). Japan. Very slow growth while young, eventually large size; dark green shining foliage arranged in whorls of umbrella-like tufts on horizontal branches. Perhaps the most remarkable and beautiful conifer brought from Japan. 1½ to 2 feet, \$3.00; 2 to 3 feet, \$7.50; 3 to 4 feet, \$10.00.

TAXUS (Yew)

- Taxus baccata** (*English Yew*). A densely branched, spreading bush, of a dark sombre hue; one of the best evergreens for clipping into artificial forms. 2 to 3 feet, \$3.50; 3 to 4 feet, \$7.50.

TAXUS (Yew) Continued

- T. baccata, var. fastigiata aurea** (*Golden, English Yew*). In character similar to the preceding, with young foliage a brilliant golden yellow. 2 to 3 feet, \$5.00.
- T. cuspidata** (*Abrupt Pointed Yew*). Japan. Dense, bushy, with somewhat ascending branches and dark green foliage; moderate growth. Most hardy of the Yews. Choice and rare. 12 to 18 inches, \$3.00; 18 to 24 inches, \$4.00.
- T. cuspidata brevifolia**. A valuable variety from Japan. The branches are spreading and the general aspect is less dense than the common Yew. A perfectly hardy variety in any situation. 1½ feet, \$3.50; 2 feet, \$4.00.

THUYA (Arborvitae)

- Thuya occidentalis** (*American Arborvitae*). A well known shrub or tree popular for ornamental hedges, rapid growth. 2 to 3 feet, \$1.00; 3 to 4 feet, \$2.00; 5 to 6 feet, \$3.50.
- T. o. var. aurea** (*George Peabody's Arborvitae*). Color effect a clear, shining golden yellow that contrasts finely with darker evergreens. Of pyramidal habit, grows rapidly; has the brightest and most permanent color of all. 1½ to 2 feet, \$2.50; 3 to 4 feet, \$3.50.
- T. o. aurea nana**. A very dwarf, compact growing, formal variety of *B. orientalis*. It is the most popular of the Biota family, and is a perfect gem for use in small gardens or cemetery lots. The foliage is a bright golden yellow during the summer time, turning to a rich, bronzy yellow during the winter. 1 foot, \$2.00; 1½ feet, \$3.00; 2 feet, \$4.00.
- T. o. borealis** (*Chamaecyparis Nulkensis, or Sitka Cypress*). A good specimen tree, as well as useful in bed and group plantings, in sheltered or southern positions. Regularly furnished with graceful, slightly drooping branches. 2 to 2½ feet, \$2.50; 3 to 4 feet, \$4.00.
- T. o. Columbiana**. A moderate sized elegant tree with bright green foliage which is tipped throughout with creamy white. It holds its color throughout the season. 1 to 2 feet, \$2.00; 3 feet, \$3.00; 4 feet, \$4.00.
- T. o. compacta** (*Compact Arborvitae*). Dwarf, dense little evergreen, having light green foliage and neat attractive habit. For beds, borders, cemeteries, or house decoration it is highly popular. 12 to 18 inches, \$1.00; 2 to 2½ feet, \$2.00.
- T. o. globosa** (*Globe Arborvitae*). Very dwarf and compact; grows naturally into a rounded, almost ball-like form, that makes it useful for grouping, specimens, or vases. The foliage is deep, dark green. 10 to 12 inches, \$1.00; 12 to 18 inches, \$1.50; 18 to 24 inches, \$2.50.
- T. o. pyramidalis** (*Pyramidal Arborvitae*). The most narrow, columnar-like of evergreen, medium growth, very distinct, light green, compact foliage. Very effective in landscape. 18 to 24 inches, \$1.00; 2 to 3 feet, \$2.00; 3 to 4 feet, \$3.00.
- Thuya Occidentalis Rosenthali**. Foliage dark green and dense. A compact grower. Plants 3 feet high, \$3.00.
- T. o. var. Vervaeneana**. Of medium, upright growth and dense habit. The green and golden tinted leaves blend harmoniously. 3 to 4 feet, \$3.00; 4 to 5 feet, \$5.00.
- T. o. Standishi** (*Standish's Deciduous Cypress*). This is a beautiful ornamental tree, thickly foliated and presenting a very graceful appearance. It is absolutely hardy and a rapid grower. 3 feet, \$3.50; 4 feet, \$4.50; 5½ feet to 6 feet, \$8.00.
- T. o. var. Wareana; syn. Sibirica** (*Siberian Arborvitae*). An especially valuable species for cold climates. Dense and shapely, medium height in much demand for general purposes. 2 to 3 feet, \$3.00; 3 to 4 feet, \$5.00.
- T. orientalis elegantissima** (*Biota orientalis*). Medium size, upright pyramidal torch-like form, foliage flaky, tipped with yellow, giving it a bright golden color all summer and autumn, and turning bronze brown in winter. 2 to 3 feet, \$2.50; 3 to 4 feet, \$5.00; 4 to 5 feet, \$7.00.
- T. orientalis** (*Biota*). Chinese Arborvitae. 12 to 18 feet. Bushy and upright in growth and very attractive foliage. 3½ to 4 feet, \$2.50; 5 to 6 feet, \$5.00.
- T. o. Hoveyi** (*Hovey's Arborvitae*). Slow growth, pyramidal form, golden green tinge. Most ornamental of American Arborvites. 18 to 24 inches, \$1.50.
- T. o. lutea**. A tree of compact, upright growth, with beautiful yellow-tipped foliage that is gracefully suspended by slightly drooping branches. Very useful for specimens, and desirable for contrast in making groups. 1 to 2 feet, \$2.50; 2 to 3 feet, \$3.00; 4 to 5 feet, \$5.00.
- T. o. semper aurea** (*Always Golden*). Dwarf, dense, conical habit. Color golden throughout the year. 1 to 2 feet, \$2.00.

MICHELL'S DECIDUOUS SHADE TREES

FOR STREET, LAWN AND GARDEN

Ornamental shade trees judiciously and tastefully arranged enhance the value of real estate, and are always a safe investment, not alone for their life-giving oxygen, cooling shade, etc., but for beauty, grace of outline, and brilliant autumn coloring. Our stock of shade trees is complete, they are correctly grown, have been many times transplanted and given plenty of room for development of tops. The root system is perfect. We can supply shade trees in almost unlimited quantities. Shipment can be made by freight and express only. No Trees sent C. O. D.

BEECH (*Fagus*)

***Fagus sylvatica pendula* (Weeping Beech).** One of the most curious and beautiful lawn trees. Irregular in outline, and has a picturesque beauty peculiar to itself. Its twisted and contorted branches resemble living fountains of foliage, rendering it indispensable as a specimen or in breaking up the regular outline of other trees. 4 to 5 feet, \$5.00; 8 to 10 feet, \$10.00.

***F. sylvatica purpurea* (Purple Beech).** One of the handsomest lawn trees, of graceful habit, attaining a height of forty to sixty feet. The foliage in spring is a deep purple, changing later in the season to green. Should be closely pruned when transplanted. 4 to 5 feet, \$2.50; 5 to 6 feet, \$4.00.

***F. sylvatica Riversii* (Rivers' Purple Beech).** The finest of all purple-leaved trees. When a large-growing tree with purple foliage is wanted, nothing equals this. Though it varies in intensity of color from early spring until late fall, the leaves are always a rich shade, sometimes crimson and sometimes almost black. 4 to 5 feet, \$3.00; 6 to 8 feet, \$5.00.

BIRCH (*Betula*)

***Betula alba laciniata pendula* (Cut-leaved Weeping Birch).** Beyond a doubt the most beautiful of all Birches. Tall, slender, with graceful drooping branches, silvery, white bark and delicately cut foliage. As a single specimen on the lawn, it is very desirable. 8 to 10 feet, \$2.50; 10 to 12 feet, \$3.00.

***B. Youngi pendula* (Young's Weeping Birch).** A variety found trailing on the ground near Milford, England. When grafted it droops gracefully to the ground in fine, thread-like shoots. One of the most beautiful of the Weeping Birches. 4 to 5 feet, \$4.00; 5 to 6 feet, \$6.00.



Red Flowering Dogwood

DOGWOOD (*Cornus*) (Selected Specimen)

***Cornus florida rubra* (Red-flowering Dogwood).** One can hardly form an idea of the character of this strikingly beautiful flowering tree. The flowers, which appear early in May before the leaves, are of a deep rosy-pink color—a decided improvement upon the white variety, possessing the same freedom of flowering, producing a perfect drift of bloom. It is an upright grower, with roundish head, foliage large, velvety, dark green in summer and brilliant crimson in fall. Selected specimens. 2 to 3 feet, \$2.50; 3 to 4 feet, \$3.00.

***C. florida* (White-flowering Dogwood).** Similar to the red-flowering in habit of growth, though attaining larger proportions. When clothed in a mass of conspicuous white flowers in spring it is indeed an object of beauty, and should be included in every collection. 4 to 5 feet, \$1.50; 5 to 6 feet, \$2.00.

ELM (*Ulmus*)

***Ulmus Americana* (American Elm).** One of the finest street shade trees in the world; its gracefully spreading branches, assuming a graceful arching growth over driveways, afford abundant shade. 8 to 10 feet, \$1.75; 10 to 12 feet, \$2.50.

HORSE CHESTNUT (*Aesculus*)

***Aesculus hippocastanum* (White-flowering Horse Chestnut).** As an ornamental shade tree, the Horse Chestnut is highly recommended. The flowers are large, white, spotted with purple and produced in large, compact spikes, making a showy appearance. 8 to 10 feet, \$2.00; 10 to 12 feet, \$3.00.

LARCH (*Larix*)

***Larix decidua* (European Larch).** A conifer with deciduous needle-like leaves; bright green very early in spring, and clear yellow in autumn. 4 to 6 feet, \$2.00.

LINDEN (*Tilia*)

***Tilia Europaea* (European Linden).** Medium growth, eventual size very large, leaves smaller and darker than those of the American Linden, in great profusion, forming a dense shade; outline regular and conical. One of the most ornamental of trees, growing in almost any soil, and adapted to lawn or avenue. 8 to 10 feet, \$2.50; 10 to 12 feet, \$3.50.

***T. Americana* (Linden, or Basswood).** The largest-growing Linden, making a majestic tree. Suitable for parks or streets. When in blossom, its yellow flowers are intensely fragrant. A fine and valuable tree. 8 to 10 feet, \$2.50; 10 to 12 feet, \$3.50.

MAGNOLIA

***Magnolia Alexandrina*.** Has large, light pink flowers resembling *Soulangeana*, but blooms earlier. 2 to 3 feet, \$2.50; 3 to 4 feet, \$3.50.

***M. conspicua*.** In habit of growth similar to *Soulangeana*, but most esteemed of all on account of its large, pure white flowers, which are produced in great abundance the last of April. 2 to 3 feet, \$4.00; 3 to 4 feet, \$5.00.

***M. Soulangeana*.** A low spreading tree, covered early in the spring before the leaves appear, with an abundance of large flowers, purple at the base and white in the upper half of the petals, and appearing in such quantities as to completely cover the tree. 3 to 4 feet, \$3.00; 4 to 5 feet, \$5.00.

***M. Soulangeana Lennei*.** A very showy flower, cup-shaped, crimson-purple outside, and pearl-colored within. Finest of the Purple Magnolias. 2 to 2½ feet, \$4.00.

***M. Soulangeana speciosa*.** Resembles the *Soulangeana* in growth and foliage, but the flowers are a little smaller and of a lighter color, fully a week later. 2 feet, \$2.50; 3 feet, \$5.00.

***M. stellata* syn. *Halleana*.** A dwarf tree from Japan. Its form is low and shrub-like; its flowers are pure white; the petals are long, narrow, and arranged in double rows, and the fragrance is delicate. It blooms earlier than any other Magnolia, and is very showy. 2 feet, \$2.00; 3 feet, \$5.00.

MAPLE (Acer)

Acer dasycarpum (*Silver Maple*). A tree of very rapid growth and spreading habit; extensively planted for ornament and shade; the silvery foliage rendering it very attractive. 10 to 12 feet, \$1.50; 12 to 14 feet, \$2.50.

A. palmatum Atropurpureum (*Japanese Maple*). The Japan Maple is unsurpassed for ornamental purposes. The variety offered, *Atropurpureum*, is the hardiest of colored-leaved forms, and is more largely planted, the blood-red foliage making it a strikingly handsome and conspicuous tree. Trees are dwarf in habit, seldom attaining a height of more than a few feet; compact and regular. It is hardly possible to convey a correct idea of their peculiar beauty. 2 feet, \$1.50; 3 feet, \$3.00.

A. platanoides (*Norway Maple*). One of the finest park, street, shade or lawn trees in America; of rounded form, compact habit, stout, vigorous growth, with large, handsome broad leaves of deep rich green which remain on the trees until late in the season. Decidedly one of the handsomest shade trees. 8 to 10 feet, \$1.50; 10 to 12 feet, \$2.50; 12 to 14 feet, \$4.00.

A. platanoides Schwedleri (*Schwedler's Purple-Maple*). A beautiful variety, with the young shoots and leaves of a bright purplish or crimson color, which changes to purplish-green on the older leaves. One of the most valuable trees. 8 to 10 feet, \$3.00; 10 to 12 feet, \$4.00.

A. pseudo-platanus purpurescens (*Purple-leaved Sycamore*). Leaves deep green on upper surface, purplish-red beneath, producing a beautiful color effect when leaves are in motion. Fine for lawns or for grouping with other foliage trees. 8 to 10 feet, \$2.00; 10 to 12 feet, \$3.00.

A. saccharinum Wieri (*Wier's Cut-leaf Silver Maple*). A remarkably beautiful and very graceful tree, of weeping habit and abundance of deep green cut foliage. Tree a rapid grower and succeeds well on all soils. No other tree approaches it for beauty and gracefulness. As a single specimen on the lawn it cannot be surpassed. 8 to 10 feet, \$2.00; 10 to 12 feet, \$3.00.

A. saccharum (*Sugar, or Rock Maple*). Its upright habit of growth, dense shade and adaptability to different soils have rendered it one of the most extensively used. The autumn effect of the foliage is particularly handsome. 10 to 12 feet, \$2.00; 12 to 14 feet, \$4.00.

MOUNTAIN ASH (Sorbus)

Sorbus Aucuparia (*European Mountain Ash*). A handsome native tree; beautiful when in fruit or flower. In autumn and early winter the tree is clothed with large clusters of red berries, rendering it very conspicuous. 8 to 10 feet, \$2.50.

MULBERRY (Morus)

Morus alba pendula (*Teas' Weeping Mulberry*). The most graceful and hardy weeping tree in existence. Wholly unlike anything heretofore introduced. Forms a perfect umbrella-shaped head, with long, slender, willowy branches, drooping to the ground. It has beautiful foliage, is wonderfully vigorous and healthy; is one of the hardiest; safe and easy to transplant. 2 year heads, \$3.50; large specimens, \$5.00.

OAK (Quercus)

Quercus coccinea (*Scarlet Oak*). This is perhaps the most esteemed of all Oaks. Not only does it make a large, well-shaped tree, but in the fall the foliage changes to a brilliant scarlet. It makes a fine street or avenue tree. 7 to 8 feet, \$2.50; 8 to 10 feet, \$3.50.

Q. palustris (*Pin Oak*). Foliage deep green and finely divided. As the tree grows the lower branches droop, till they almost touch the ground. The leaves become of a scarlet and yellow color in autumn. A splendid avenue tree—in fact, we highly recommend it for every purpose, as few trees are prettier than a lawn specimen of this Oak. It thrives in almost any soil, and stands the test of city street planting. 8 to 10 feet, \$2.50; 10 to 12 feet, \$3.50; 12 to 14 feet, \$5.00.

Red Oak (*Quercus Rubra*). A large native tree, with deeply cut, bright green leaves. It is a good grower and not particular about the soil. In autumn the foliage turns a rich purplish crimson that is scarcely surpassed in brilliancy by any other tree. 6 to 8 feet, \$2.50; 8 to 10 feet, \$3.50.

PLATANUS (Plane Tree)

Platanus orientalis (*Oriental Plane, Buttonwood*). A favorite tree for avenue and seashore planting, of large spreading habit and rapid growth, attaining a height of fifty to seventy feet, and not affected by insects. Leaves large, smooth and handsome, affording abundant shade. Thrives in high or low ground and cannot be too highly recommended where a large rapid-growing tree is desired. 8 to 10 feet, \$2.00; 10 to 12 feet, \$2.50; 12 to 14 feet, \$3.50.

POPLAR (Populus)

Populus monilifera (*Carolina, or Cottonwood Poplar*). It is good in almost any location, thriving at the seashore in poor, sandy soil. It forms a fine-shaped, spreading tree, with large, dark, glossy leaves, and for screens is unequalled. 10 to 12 feet, \$1.50.

P. nigra fastigiata var. Italica (*Lombardy Poplar*). Its tall fastigiate form, sometimes reaching 120 feet, makes it indispensable in landscape effects for breaking monotony of outline. Its growth is very rapid. 8 to 10 feet, \$1.50; 10 to 12 feet, \$2.00; 14 to 16 feet, \$3.00.

PYRUS

Pyrus (*Bechtel's Double-flowering Crab*). A variety which we consider the best flowering Crab ever introduced. The tree is of medium growth, and the flowers of immense size, of a beautiful pink color, are highly fragrant. They are very double and resemble pink roses. 2 to 3 feet, \$2.00; 3 to 4 feet, \$2.50.

SALISBURIA (Maiden Hair Tree or Ginkgo)

One of the oddest and most peculiar of all hardy exotic trees. Its leaves are deciduous, fan-shaped, broad and notched, resembling those of the Maidenhair Fern; perfectly hardy. 6 to 8 feet, \$1.50; 8 to 10 feet, \$2.50.

SWEET GUM (Liquidambar)

Liquidambar styraciflua (*Sweet Gum*). One of our most ornamental trees. A rapid growing tree, and thriving in a great variety of soils. The leaves are roundish, but with five to seven pointed spreading lobes. In autumn they assume a rich bronze color, and oftentimes change to crimson. 6 to 8 feet, \$2.00; 8 to 10 feet, \$3.00.

TULIP TREE (Liriodendron)

Liriodendron tulipifera (*Tulip Tree*). A popular native deciduous tree, sometimes attaining a height of seventy-five to one hundred feet. 6 to 8 feet, \$1.50; 10 to 12 feet, \$2.50.



Catalpa or Umbrella Tree

UMBRELLA TREE (Catalpa Bungei)

For the lawn, formal garden or terrace decoration the *Catalpa Bungei* is very effective. It is an ideal lawn tree, decidedly ornamental and unique, clothed with a mass of large heart-shaped leaves that overlap each other, forming a perfect roof. Has a dense, perfect, half-globular or umbrella-shaped head, high on a straight upright stem. A striking and very ornamental tree upon the lawn. On terraces when used in connection with the California Privet hedge the effect is most pleasing.

Price, 6 to 7 feet stems, 1 year heads, \$1.25 each; 6 to 7 feet stems, 2 year heads, \$2.50 each; 6 to 7 feet stems, 4 year heads, \$5.00 each.

WILLOW (Salix)

Salix Babylonica (*Weeping Willow*). This is the well-known Weeping Willow, whose long, pendulous branches droop so gracefully, and sway to the lightest breeze. Makes an admirable shade tree and grows well in wet or dry places. 8 to 10 feet, \$1.50; 10 to 12 feet, \$2.50.

MICHELL'S CHOICE THRIFTY HEDGE PLANTS



BERBERIS THUNBERGII

(Japanese Barberry)

A good, hardy plant of low dense growth. There is an air of grace and refinement to the Barberry Bush, which is not embodied in any other hedge plant. It is a brilliant light green from early spring to winter. It has a manner of growth which does not give it the stiff, cold appearance which many other hedge plants have. It should really be regarded as a shrub, as it can be planted individually in lawn or border. The slender branches are prickly with small thorns, and tend to make a defensive hedge that few animals will attempt to penetrate. In autumn the foliage is a bright crimson; when it falls a profusion of scarlet berries, which remain throughout the winter, are revealed on the branches.

A Hedge of Berberis Thunbergii—Nothing in the Hedge Plant Line Equals it for Grace and Beauty

Price of Berberis

	Doz.	100	1000
1 to 1½ ft.....	\$1.75	\$12.50	\$100.00
1½ to 2 ft.....	2.00	15.00	120.00
2 to 2½ ft.....	4.00	27.50	200.00

CALIFORNIA PRIVET

Exceedingly beautiful; leaves deep green, bright and very glossy. Especially adapted for hedges at the seashore; easily transplanted. Unlike a fence which needs painting, repairing, etc., and then never looks well. This hedge is no further expense after planted, and it adds dignity and charm to any home, and increases the value of real estate. Being absolutely hardy, it increases in its beauty with each successive year, and the possibilities are amply displayed at some of the model suburban home grounds in and around Philadelphia. Privet is somewhat of an Evergreen nature and looks attractive until real winter sets in. To establish a good hedge, the proper foundation is necessary. The trench should be thoroughly manured, and received in addition a liberal application of Michell's Pure Bone Meal and both worked in with a spade. Plants should be set 12 inches apart in double rows, in ziz-zag fashion, so that the plants are diagonally opposite each other, this practically places them 6 inches apart, which is desirable to get a quick dense growth. Plant from October 1st to November 15th and from March 15th to May 15th. Ask for our special free circular on California Privet.

Height	Doz.	100	1000
1-yr.-old, 18 to 24 in., 3 to 4 branches..	\$0.60	\$3.00	\$25.00
2-yr.-old, 24 to 30 in., 5 to 8 branches..	.75	4.50	38.00
2-yr.-old, 30 to 36 in., 8 to 10 branches..	1.00	5.50	47.50



A Privet Hedge is Much More Attractive than the Best Fence

STANDARD OR TREE-SHAPED PRIVET

(See page 183)

GOLDEN or VARIEGATED LEAVED PRIVET

Like the California variety, but each leaf is margined and blotched golden yellow, giving it, from a distance, a striking appearance. It is quite new and the stock is limited, when available it will become very popular, we recommend it especially for placing among shrubbery or for planting on the lawn, the contrast between the grass and golden foliage is beautiful.

Bushy Plants, 15 to 18 in. high, 25c. each; doz., \$2.50; 100, \$15.00.

BOXWOOD (Buxus suffruticosa. For Edging)

In Europe the Boxwood edging plays a very conspicuous part in every garden. There is something about it which adds a homelike feeling to the surroundings. At times, especially in the morning, or after a rain, it seems to permeate the air with a distinct, pleasant odor. A planting lasts a lifetime. Many Boxwood enclosures, planted a hundred years ago, are in existence to-day. It grows rather bushy, instead of in height. It should be set about 4 inches apart and trimmed to shape according to its growth.

Strong Plants, 4 to 6 inches high, \$1.00 per doz.; per 100, \$6.00; \$50.00 per 1000 See also page 183 for other Boxbush.



Boxwood Edging Adds to a Garden Charm and Beauty That Cannot be Obtained With Any Other Plant

We Can Also Supply All Other Varieties of Hedge Plants

(ba.)

NEW VARIETIES OF POPULAR FRUITS

CACO GRAPE (A cross between Concord and Catawba)

The most delicious of all Grapes—perfectly hardy, has been pronounced by America's most expert grape growers *to equal in high quality and melting texture* the finest varieties grown under glass. When one considers the price of the greenhouse product and realizes that the wonderful Caco can be grown in the back yard, almost without attention, the force of the above statement is apparent.

The large berry is wine-red. Bunch of good size, compact and of good form. Ripens ten days to two weeks in advance of Concord; rich in sugar, excellent in flavor. Vine a very strong vigorous grower, healthy and prolific.

Fruit for past two years sold in open market by the crate at more than double the price of any other variety.

Awarded a medal by the American Institute of New York; the highest honor ever conferred a variety of fruit by this (time honored) institution. We cannot recommend the Caco too highly.

Very strong vines, 2 years, each, 50c.; dozen, \$5.00; 100, \$35.00. (Parcel Post Weight, 1 lb. each).

STAR BLACKBERRY

Imagine picking great clusters of giant sized Blackberries from canes that resemble grape vines. This is what you can do if you plant the Star Blackberry. The yield is so great that over eighty quarts of berries have been picked from a single plant of it in one season.

Train to a stake or trellis or over an arbor as grapes are grown—and give them plenty of room.

Berries large, of attractive appearance and rich, sprightly and luscious quality.



A Single Cluster of Star Blackberry

Caco Grape.

They keep in good condition for a long time and can be safely shipped almost any distance. The ideal berry for the home garden. Transplanted plants, which should bear this year, each, 20c.; dozen, \$2.00; 100, \$12.50.

(Parcel Post Weight, each, 1 lb.; 5 lbs. per doz.).

NEW EVERBEARING RASPBERRY "RANERE"

It yields its first crop of berries in June (the regular season), and yields an equally heavy crop the latter part of August, and continues bearing right up to November.

It thrives equally well on sandy and heavy soil. The fruit is large, of a beautiful crimson color, very sweet and juicy and is borne in great abundance, and does not seem to sunscald as easily as other sorts, last season we had a photo made of a stalk which had by actual count 169 berries on one stem, this will give some idea of its free fruiting qualities.

We will send out strong plants, which, from our experience in the past, should bear the first season.

Price: 60c. per doz., per 100, \$4.00; \$17.50 per 500; \$30.00 per 1000.

(Parcel Post Weight, per doz., 5 lbs.).



The Wonderful Everbearing Raspberry "Ranere"

Plants in quantities larger than a few can best be shipped via express or freight. No Plants sent C. O. D. (hc)

MICHELL'S SELECTED SMALL FRUITS

SHIPPING SEASON MARCH 15th TO MAY 15th



Blackberry Mersereau

BLACKBERRIES (Extra Strong Plants)

Eldorado. A very vigorous grower, free from mildew or rust, enormously productive; fruit large, excellent quality, free from core. Per doz., 60c.; \$3.00 per 100.

Erie. Very productive; free from rust; fruit of good quality. 75c. per doz.; \$3.00 per 100; \$20.00 per 1000.

Ohmer. Canes hardy; fruit very large; of excellent quality, firm, with no core, and sweet before soft or fully ripe. 60c. per doz.; \$3.50 per 100.

Mersereau. Remarkably strong grower. An enormous producer of extra size berries which are brilliant black and retain their color under all conditions; sweet, without core. Unsurpassed as a shipper and keeper. Per doz., 75c.; \$4.00 per 100.

Rathbun. Fruit is of enormous size, single specimens measure one and three-quarters inches in length, firm and sweet, with no core. Plant is very hardy. 60c. per doz.; per 100 \$3.00.

Star (New). (*Everbearing.*) See page 189 for a full description of this. 20c. each; \$2.00 per doz.; per 100, \$12.50.

Ward. A new blackberry of great merit. A seedling of the Kittatinny, which it resembles somewhat. A very strong grower; it is perfectly hardy. The fruit is black throughout, very prolific and firm. 60c. per doz.; \$4.00 per 100.

We consider the above the best varieties in commerce.

Note.—If Blackberries are desired by Parcel Post allow 5 lbs. per dozen for postage, as we send out only extra strong plants which generally bear some the first season.

We consider the above varieties the best in cultivation.

Note.—If Raspberries are desired by Parcel Post, allow 5 lbs. per doz. for postage, as we send out extra strong plants.

CURRANTS (Extra Strong Plants)

Currants like good rich soil. They are particularly susceptible to scale, and steps should be taken to keep them free from this by liberal spraying, when the bushes are dormant.

Black Naples. Fruit varies from small to large, averaging above medium; strong flavor. An old and well-known variety.

Cherry. Bush vigorous, stocky and compact; cluster rather short, with short stems; fruit averages large; color fine, bright red. One of the most productive of the large currants.

Fay's Prolific. Not quite so strong a grower as Cherry; cluster medium to long, with rather long stems; color darker than Cherry.

North Star. Bush very vigorous, upright, somewhat spreading; clusters medium length.

Red Dutch. An old and well-known standard variety; clusters average about three inches long; berries medium in size, dark red.

Versailles (La Versailles). Bush a vigorous, somewhat spreading grower. Very similar to Cherry in habit of growth and character of fruit.

White Grape. Clusters long; berries very large; of very attractive color, mild flavor and good quality.

Price, any of the above varieties of Currants, strong 2-year-old, 15c. each; per doz., \$1.25; \$8.00 per 100.

Note.—If Currants are desired by Parcel Post, allow 5 lbs. per doz. for postage, as we send out extra strong plants, which generally bear some the first season. The varieties we list are among the best.

RASPBERRIES

Extra Strong Plants

Raspberries should be carefully staked, to get large crops. We recommend that well-rotted manure or other suitable fertilizer be dug around the bushes, either in the fall or early spring.

Brilliant. Ripens its fruit early and fast, producing bright, glossy, brilliant red berries, handsome. \$1.00 per doz.; per 100, \$5.00.

Cumberland (Black-cap). The largest raspberry known. Selected specimens measure an inch in diameter, immensely productive. Season a little in advance of Gregg. 60c. per doz.; per 100, \$3.50.

Cuthbert. Berries very large, measuring 3 inches around; conical; rich crimson. 60c. per doz.; per 100, \$3.50.

Columbian. Fruit very large, often an inch in diameter; color dark red, bordering on purple. 75c. per doz.; per 100, \$3.50.

Gregg (Black). Large, firm, of good quality, ripening late. Exceedingly productive. 60c. per doz.; per 100, \$3.50.

Golden Queen. Berries are large, of beautiful bright yellow, of excellent quality; medium to late. Per doz., 75c.; \$3.50 per 100.

Ranere (Everbearing). A full description of this will be found on page 189. 60c. per doz.; per 100, \$4.00.



Raspberry Brilliant



Currant White Grape

Plants can best be shipped via express or freight. No Plants sent C. O. D.

(hc)

MICHELL'S SELECTED SMALL FRUITS

(SHIPPING SEASON MARCH 15th TO MAY 15th)

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GRAPE VINES

Brighton. Bunch large, well formed; berries above medium to large, round; excellent flavor and quality. One of the earliest in ripening.

Caco (New). A full description of this variety will be found on page 189. Extra strong vines, 50c. each; doz., \$5.00.

Campbell's Early. A valuable and delicious grape; vine very strong, hardy and vigorous, with thick, healthy foliage; berries large, black, with light purplish bloom; skin thin; few and small seeds; flavor rich, delicious.

Concord. The well-known standard purple variety, succeeds wherever grapes will grow.

Delaware. Bunches and berries rather small; light red; juicy.

Catawba. Delicious flavor, medium size red berry.

Green Mountain. A very early grape of the best quality; of medium size; color, greenish-white; almost melting in the mouth; vine vigorous, healthy and productive. 50c. each; per doz., \$5.00.

Moore's Diamond. A strong healthy grower, hardy and productive; color, white; berries large, flesh tender, juicy, but with little pulp; ripens before Concord.

Moore's Early. Berry large, with heavy blue bloom. Vine exceedingly hardy; desirable for an early market.

Niagara. An unusually strong grower; bunches very large and compact, berries large, light greenish-white, semi-transparent, has very little pulp and is sweet to the centre.

Pocklington. Bunch and berries large, when fully ripe a light golden-yellow. Vine thoroughly hardy, strong grower and productive.

Vergennes. Berries large, holding firmly to the stem; light amber; rich and delicious.

Worden. A beautiful, large black grape; larger, earlier and decidedly better than Concord.

Wyoming. Vine very hardy, healthy and robust. One of the most beautiful of the amber or red grapes, and in size nearly double that of the Delaware. Flesh tender and sweet, with a strong native aroma. Ripens before Delaware.

SPECIAL OFFER. We have an extra fine stock of most of the varieties which are described above, in strong 3-year-old vines. These will invariably produce fruit a year after planting, which makes it well worth while to plant 3-year-old stock.

Our stock of these, however, in some varieties is limited and constantly changing; we therefore suggest that customers allow us to send, in case we are sold out of the varieties they want, a good substitute, which in any event will be equal to or better than the variety they have ordered of the same color.

PRICES. 2-year-old vines, except where noted, 25c. each; doz., \$2.50; \$15.00 per 100. Extra strong 3-year-old vines, which generally bear the following season, 50c. each; doz., \$5.00; \$30.00 per 100. P. P. Wt., on Grape Vines, 2-year-old, 1 lb.; 3-year-old, 2 lbs.



GOOSEBERRIES (Extra Strong)

Gooseberries should be cultivated during the growing season and fertilized with manure in the early spring or late fall. They will repay you for this trouble with an extra big crop.

Parcel Post Weight on Gooseberries, 5 lbs. per doz.

Industry. An English variety quite hardy here; it is a great producer of large red berries. 20c. each; doz., \$2.00; \$15.00 per 100.

The Pearl. Large pale green fruit of exceptional quality; very sweet. 20c. each; doz., \$2.00; \$15.00 per 100.

Downing. Fruit medium to large, whitish green; flesh soft, juicy. Each, 15c.; per doz., \$1.50; per 100, \$10.00.

Houghton. Bush a vigorous grower, with rather slender branches; very productive. Fruit medium size, pale red, tender and good. 20c. each; per doz., \$2.00; \$15.00 per 100.

Red Jacket. Of American origin, possessing all the good qualities of the English type, and withstanding our severe climatic conditions with impunity. A wonderful cropper, with clean healthy foliage. 20c. each; per doz., \$2.00; \$15.00 per 100.

STRAWBERRY PLANTS (Extra Strong Layers)

Ready from April 1st to May.

EARLY VARIETIES

Abington, Clyde, Senator Dunlap, Success, Wildwood.

MID-SEASON VARIETIES

Auto, Bubach, Heritage, Nick Ohmer, President, William Belt, Marshall, Barrymore, Rewastico.

LATE SEASON VARIETIES

Brandywine, Gandy, Glen Mary, Sample, Sharpless, Steven's Late Champion, Chesapeake.

Price of the above, 25c. per doz.; \$1.25 per 100; \$8.00 per 1000.

FALL FRUITING VARIETIES

Americus, Progressive, Superb. 30c. doz.; 100, \$1.75; 1000, \$15.00.

P. P. Wt. of Layer Strawberries. 1 doz., 1 lb.; 100, 4 lbs.

Pot-Grown Strawberry Plants ready about August 1st.



Plants can best be shipped via express or freight. No Plants sent C. O. D.

(hc)

MICHELL'S FRUIT AND NUT TREES

Fine fruit is the flower of commodities. "It is the most perfect union of the useful and the beautiful that the earth knows. Trees full of soft foliage; blossoms fresh with spring beauty; and, finally, fruit, rich, bloom-dusted, melting and luscious." If you contemplate planting a large number of fruit or nut trees or are interested in other varieties, please get our quotations.

APPLES

Arkansas Black. Tree very hardy, coming into fruiting young; fruit large, round and smooth; skin black, flesh yellow, juicy, crisp and delicious flavor; one of the best eating Apples.

Baldwin. Large, roundish; deep bright red; juicy, crisp, sub-acid, good flavor; very productive of fair, handsome fruit. One of the most popular varieties in northern States.

Ben Davis. Large, handsome, striped, productive; a late keeper. Tree remarkably healthy and vigorous. A profitable market sort.

Grimes' Golden (Grimes' Golden Pippin). Of the highest quality; medium to large size; deep golden-yellow, sub-acid, aromatic, spicy and rich. Tree vigorous and productive.

Jonathan. Medium size; red and yellow; flesh tender, juicy and rich; a moderate grower; shoots light colored, slender and spreading; very productive. One of the best varieties either for table or market.

Maiden's Blush. Rather large, smooth, regular, with a fine, evenly shaded red cheek or blush on a clear, pale yellow ground; flesh white, tender, sprightly, with a pleasant sub-acid flavor.

Mammoth Black Twig. A very large, dark red winter apple from Arkansas. Is being largely planted for a market variety in the West as superior to Winesap. Tree vigorous, hardy and productive.

McIntosh Red. Hardy Canadian apple. Medium, nearly covered with dark red; flesh white, fine, tender, juicy. Good annual bearer.

Paragon. Fruit large, roundish, somewhat flattened; color dark red; flesh firm, yellow, crisp, aromatic, sub-acid and juicy. It is a very late keeper, rich and of excellent quality.

Red Astrachan. Large, roundish, nearly covered with deep crimson, overspread with a thick bloom; juicy, rich acid, beautiful, productive.

Rhode Island Greening. Large, greenish-yellow; tender, juicy and rich, with rather an acid flavor; an abundant bearer.

Rome Beauty. Large and handsome, yellow, with crimson cheek, and tender, juicy yellow flesh. Bears heavy annual crops.

Starr. This apple has every good point in its favor—early ripening, large size, good quality and productiveness; color of fruit pale green, frequently with blush on sunny side. As a cooking apple it cannot be equaled, having a rich, sub-acid flavor, and when thoroughly ripe is a delicious apple to eat out of hand.

Smith Cider. Medium size; greenish-white, striped with red; very productive.

Smokehouse. Above medium, roundish oblate; yellow, shaded and striped with bright red; flesh yellowish, crisp, juicy, rich and pleasant sub-acid. A rather crooked grower, but productive.

Stayman's Winesap. One of the finest apples grown for appearance, flavor and juiciness. Medium size, conical; mostly covered with red on yellow ground; flesh fine, crisp and high-flavored.

Wealthy. As a late fall apple the Wealthy has few equals. Skin smooth, oily, mostly covered with dark red; flesh white, fine grained, juicy, vinous, sub-acid; unequaled for cooking and excellent to eat out of hand; tree a free grower, very hardy and exceedingly productive.

Winesap. Medium size, dark red, rich flavor; very productive. Late.

Yellow Transparent. One of the most desirable early apples in cultivation. Early bearer, frequently producing fine fruit on 2-year trees in nursery rows. Good grower and hardy; fruit pale yellow, roundish, ovate, good size and good quality; skin clear white at first, becoming a beautiful pale yellow when fully matured.

CRAB APPLES

Hyslop. Fruit large, produced in clusters, deep crimson, covered with blue bloom. Very popular on account of its large size, beauty and hardness.

Transcendent. Tree immensely productive, bearing after second year. Fruit from 1½ to 2 inches in diameter; skin yellow, striped with red; most popular.

Price of Apple Trees. Extra, 6 to 8 feet. 75c. each; \$7.50 per doz.; \$50.00 per 100.

APRICOTS

RUSSIAN

Alexander. Ripens latter part of July; fruit medium in size, oblong and flattened, orange-yellow with faint blush; flesh firm, rather coarse.

Catherine. Earlier than Alexander; fruit small to medium, slightly oblong, globular, deep rich orange with dull red cheek.

J. L. Budd. About same as Catherine in season of ripening; oblong in shape; light orange with faint blush; flesh juicy with a sweet peachy flavor; quality good.

Price of Apricots, two years old, 60c. each; \$6.00 per doz.

CHERRIES

Black Eagle. Large, black; tender, rich, juicy and high flavored. Tree a moderate grower and productive.

Black Tartarian. Very large, purplish black; half-tender; flavor mild and pleasant. Tree a remarkably vigorous, erect and beautiful grower, and an immense bearer. One of the most popular varieties.

Early Richmond. Medium size, dark red; juicy, sprightly acid flavor. This is one of the most valuable and popular of the acid Cherries.

Governor Wood. Fruit large, roundish, heart-shaped. Skin light yellow, shaded and marbled with bright red. Flesh tender, juicy, sweet, rich and delicious.

Large Montmorency. A popular market variety; good for all purposes. Vigorous grower, very productive. Fruit large, light red; ten days later than Early Richmond.

Mercer. A heart variety of large size, excellent quality and attractive appearance, larger than Black Tartarian; color when ripe very dark red, very meaty and firm, free from rot and disease, very productive, hardy and a good grower.

Napoleon. A magnificent cherry of the largest size; pale yellow, with a bright red cheek; flesh very firm, juicy and sweet. Tree a vigorous, erect grower and bears enormous crops; ripens late.

Windsor. A remarkably firm, large late variety, and no doubt the best of its season; fruit large, liver-colored, of good quality.

Yellow Spanish. Large; pale yellow, with bright red cheek in the sun; flesh firm, juicy and delicious; one of the best, most beautiful and popular of all light-colored Cherries.

Prices of Cherry Trees. Extra heavy, 5 to 7 feet. 75c. each; \$7.50 per doz.

PLUMS

Abundance. In tree and fruit unlike any other plum. In growth it is so strong and handsome as to render it worthy of being planted as an ornamental tree. The fruit is very large, showy and beautiful. Amber, turning to a rich, bright cherry color.

Burbank. Medium to rather large, roundish conical in form; orange-yellow, overlaid with red; flesh firm, meaty, yellow, rich, sugary.

Hale. The plums are of the largest size of its class, bright orange-yellow skin, mottled and nearly covered with vivid cherry-red; flesh yellow, firm and delicious.

Red June (Japan). Vigorous, hardy, early productive; fruit medium to large, deep vermilion-red; very showy; flesh light lemon-yellow, firm and of excellent quality.

Sultan. One of the most attractive of plums; very large in size, deep purplish-crimson in color; flesh very firm, fragrant, sweet, dark crimson shaded with pink.

Wickson. Fruit large, obconical, dark crimson-purple; flesh very firm, yellow, juicy, sub-acid, highly flavored; pit small; clingstone; quality best. An excellent keeper.

Wild Goose. Large, rich crimson; very productive and profitable.

Prices of Plum Trees. Extra, 5 to 6 feet. 75c. each; \$7.50 per doz.

PEARS

- Bartlett.** Large size, with often a beautiful blush next the sun; buttery, very juicy and high flavored; bears early and abundantly.
- Flemish Beauty.** Large, beautiful, juicy, melting, rich and fine; good bearer; one of the hardiest and does well everywhere.
- Howell.** Large, light waxen-yellow, with a fine, red cheek; handsome, rich, sweet, melting; perfumed, aromatic flavor. An early annual and profuse bearer.
- Kieffer.** While not of best quality, properly ripened it is a fair dessert fruit, and one of the very best for canning and preserving. Of large size and handsome appearance.
- Lawrence.** A good grower; very productive and an annual bearer. Fruit medium, canary-yellow, sweet and excellent; a good keeper.
- Le Conte.** Very vigorous grower; fruit very large, greenish-yellow; smooth and handsome; juicy.
- Seckel.** Small, skin rich yellowish-brown, when fully ripe, with deep, brownish-red cheek; flesh very fine grained, sweet, exceedingly juicy; one of the richest and best flavored Pears.



Worden-Seckel

Worden-Seckel. A seedling of the Seckel, which for many years has been conceded to be the standard of excellence. Equal in quality to its famous parent, which it much resembles in flavor, is equally as luscious, more juicy, and with an aroma equally as rich and inviting, while in size, color, form and appearance it is decidedly superior. Tree a more upright and rapid grower than Seckel; an enormous bearer; fruit keeps well, retaining its quality to the last.

Prices of Pear Trees: Extra, 5 to 7 feet, 75c. each; \$7.50 per doz.

QUINCES

- Bourgeat.** A new golden prolific variety of the best quality. ripens shortly after Orange and keeping until Midwinter; yielding immense crops. Fruit of largest size, round, rich golden color.
- Champion.** A prolific bearer, fruit averaging larger than the Orange; bears extremely young.
- Meech.** Immensely productive, frequently bearing fruit when but two years of age; the fruit is large, lively orange-yellow, of great beauty and delightful fragrance.
- Orange.** Large, roundish; bright golden-yellow; cooks tender and is of very excellent flavor; valuable for preserves or flavoring.
- Price of 2 year old Quince Trees, 4-5 ft. high, 75c. each; doz., \$7.50.

PEACHES

- Beer's Smock (Late).** Large size; flesh yellow; an improvement on Smock Free; a few days later and an annual bearer.
- Belle of Georgia.** Freestone; skin rich creamy-white, with a bright red cheek on sunny side; quality delicious.
- Carman (Early).** Fruit large, with pale yellow skin, red blush on sunny side; flesh white, tender and melting, rich sweet and of superior flavor.
- Champion (Early).** Freestone; very large; creamy-white with a bright red cheek; flesh creamy-white, firm, sweet and delicious.
- Chair's Choice (Late).** Freestone; very large; yellow, with a red cheek; flesh yellow, firm and of good quality.
- Crawford's Early.** Fruit large, oblong; skin yellow, with fine red cheek; flesh yellow; wonderfully productive.
- Crawford's Late.** Fruit of largest size; skin greenish-yellow, with dull red cheek; flesh yellow.
- Elberta (Medium).** Large, yellow, with red cheek; flesh yellow; firm, juicy, of high quality. One of the leading market varieties.
- Ford's Late White.** Large, white, handsome; of good quality.
- Greensboro.** The largest of the early Peaches. Yellow, with a bright red covering; flesh white; of excellent flavor.
- Iron Mountain (Late).** Freestone; large; pure white skin; flesh white to the stone, solid, juicy, sweet and excellent.
- Mountain Rose (Early).** White, with red cheek; very good; freestone.
- Oldmixon Free (Medium).** Uniformly large; white, covered with bright red; one of the best.
- Stephen's Rare Ripe (Late).** Fruit white, shaded red. Flesh firm, juicy. Freestone.
- Stump the World.** Very large; skin white, with bright red cheek; flesh white, juicy and good.
- Prices of Peach Trees: Extra, 5 to 6 feet, 50c. each; \$5.00 per doz.

NUT TREES

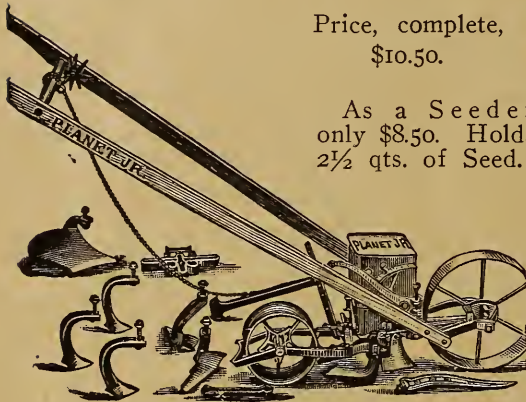
- Paragon Chestnut (Grafted).** Tree hardy, productive; nuts large and of excellent quality. Two trees four years grafted produced one bushel of nuts each, which sold at wholesale at \$10.00 per bushel.
- Ridgeley Chestnut (Grafted).** A large variety of the Chestnut from Delaware. Very productive. As indicating its great value as a market variety, the crop from the original tree is reported to have brought \$32.00.
- Price of Chestnut Trees, 4 to 6 feet high, \$2.00 each; doz., \$20.00.
- Black Walnut.** A native tree of large size and majestic form, beautiful foliage. A rapid grower, producing a large, round nut of excellent quality.
- Persian Walnut (Maiden).** A handsome, lofty-growing tree of spreading habit, hardy and productive as far north as New York City. This tree should not be planted for the nuts alone, but as a shade and ornamental tree, its handsome form, deep green foliage, and clean appearance, rendering it strikingly handsome on a lawn.
- Persian Kaghazi Walnut.** A vigorous, free grower; very prolific, producing nuts in clusters, and comes to fruiting very young. The nut is larger than in the ordinary varieties; the kernel full, plump, meaty, sweeter, richer in oils and of finer flavor. The shell is thin but not tender, like some "paper shell" varieties, does not crack in handling.
- Price of Walnut Trees, 3 to 4 feet high, 75c. each; doz., \$7.50; 4 to 5 feet high, \$1.00 each; doz., \$10.00.
- Hard Shell Almond.** A fine, hardy variety. The nuts have large, plump kernels, and the tree large, showy, ornamental blossoms. 4 to 5 feet. 75c. each; \$7.00 per doz.
- Butternut.** Tree of rapid growth, with large, luxuriant tropical-looking foliage; very ornamental, very productive; bears young. The nuts differ from American black Walnuts in being longer, with kernels of sweeter and more delicate flavor. 4 to 5 feet, 75c. each; \$7.50 per doz.



No. 4 PLANET Jr. COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW

Price, complete,
\$10.50.

As a Seeder
only \$8.50. Holds
2½ qts. of Seed.

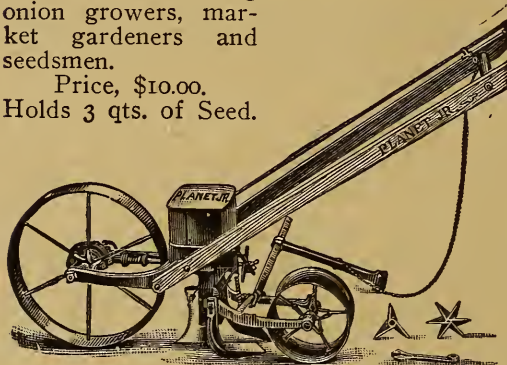


Plants all garden seeds accurately in
hills or drills; hoes, cultivates and plows
quickly and thoroughly. Popular with
farmers and gardeners everywhere.

No. 3 PLANET JR. HILL AND DRILL SEEDER

A favorite among
onion growers, mar-
ket gardeners and
seedsmen.

Price, \$10.00.
Holds 3 qts. of Seed.



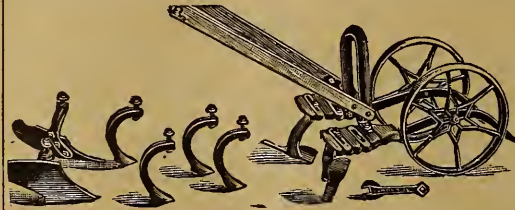
Easy running, even with the hopper
filled to the brim.

The special force feed is admirable,
working equally well whether sowing with
an ounce or a full hopper.

No. 25 PLANET JR. COMBINED HILL AND DRILL SEEDER, DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

Steel Frame. Holds 2½ qts. of seed.
\$13.00.

Capital for large-scale gardening es-
pecially, has automatic feed-stopper, seed
index and complete cultivating attachments.



No. 12 DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

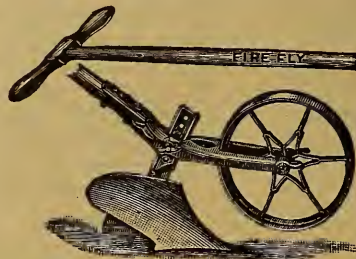
Price, \$6.50.

Works both sides of plants thoroughly
and rapidly at one passage, until crops are
20 inches high. This fine tool has inde-
structible steel frames, steel leaf lifters
and 14 inch steel wheels.

No. 13 DOUBLE WHEEL HOE

Price, \$4.50.

This tool is the No. 12, with 6-inch hoes
only, these being the tools that are most
generally useful. Any of the attachments
shown with No. 12 may be added at any
time.



FIRE-FLY GARDEN PLOW

Exceedingly useful to every owner of a
garden. It throws furrows various widths;
very desirable for plowing up gardens for
new crops. Price, \$2.25.

PLANET JR. TOOLS NOT ILLUSTRATED

No. 31	Combined Seeder and Wheel Hoe Complete	\$6.50
No. 32	The above machine as a Seeder only	4.75
No. 33	The above machine as a Wheel Hoe only	2.75
No. 1	Seeder	9.00
No. 2	Seeder	7.00
No. 5	Hill and Drill Seeder	12.50
No. 6	Combined Seeder	13.00
No. 6	Plain Seeder	10.50
No. 28	Combined Seeder	14.50
No. 29	Plain Seeder	11.00
No. 11	Double Wheel Hoe	8.50
No. 13½	Double Wheel Hoe	5.75
No. 14	Double Wheel Hoe	7.50
No. 17½	Single Wheel Hoe	4.25
No. 38	Single Wheel Hoe	6.50
No. 18½	Single Wheel Hoe	4.50



No. 16 PLANET Jr. SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW

Price, \$5.50.

No. 17 PLANET JR. SINGLE WHEEL HOE

Price, \$4.75.

This tool is identical with No. 16, illus-
trated above, except in equipment. It has
a pair of 6-inch hoes, a plow and a set of
cultivator teeth.

No. 18 SINGLE WHEEL HOE

Price, \$3.25.

This has one pair of 6-inch hoes only.
Other attachments can be added as needed.

PARTS of PLANET JR. WHEEL HOES

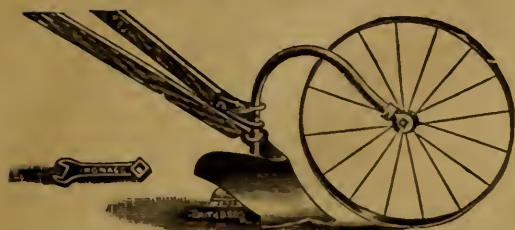
Wheel, plain		\$0.85
Leaf Lifter	For Single	.20
Frame	Wheel Hoe	.85
Handles, per pair		.70
Wrench		\$0.12
Side Frames, ea.		.70
Wheels, each	For Double	.75
Arch	Wheel Hoe	.80
Handles, per pair		.70
Leaf Lifters, each		.20
Side Plows, per pair		\$1.10
Cultivator Teeth, each	Parts for	.35
Landside Plow	Single and	1.10
Rakes, 3-tooth	Double	.35
Rakes, 5-tooth	Wheel Hoes	.45
Rakes, 7-tooth		.55
Side Hoes, 4½ in., 8oc; 6 in., 9oc; 7 in., \$1.00 pr.		
Handle		\$0.50
Frame	For Fire	.60
Wheel	Fly Plow	.85
Mouldboard		.60



INVINCIBLE CULTIVATOR

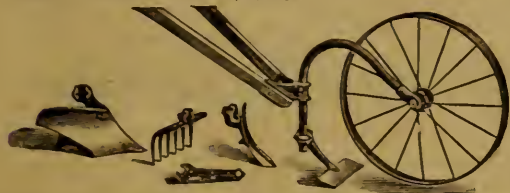
A wonderfully useful tool, at times dis-
placing the hoe and rake almost entirely.
The teeth are adjustable, cultivate shallow
or deep. Price, 85c. each.

IRON AGE FARM AND GARDEN TOOLS



NO. 11 WHEEL PLOV

The work of hilling up crops in the garden by the old method is acknowledged difficult by any one who has tried it. Not only will the Wheel Plov do this work with less effort and more rapidly, it also does it much better. Price, \$2.50.



NO. 12 WHEEL HOE AND PLOV

This tool is a most desirable one for the family garden and truck patch. It may be speedily changed for different purposes. Price \$3.50



NO. 9 WHEEL HOE, PLOV AND CULTIVATOR

The most complete of the Iron Age single wheel hand tools. It may be used as a hilling plov for hoeing, weeding and raking. Price \$5.25

No. 10.—This is similar to the above machine but with one pair of side hoes only. Price \$3.25

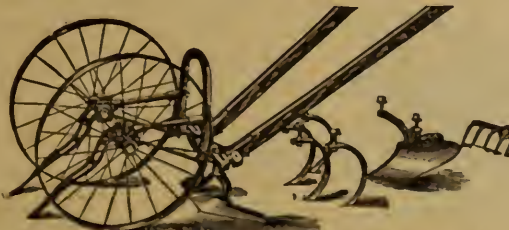


GEM SINGLE WHEEL HOE

Of garden tools this is the most popular, being low in price and complete in detail, suited for most any work in a garden. It weeds, hoes, hills and harrows. Price, \$5.00.

GEM DOUBLE WHEEL HOE

Similar to the single wheel machine, excepting for the fact that it possesses another wheel and is minus the scufflers. It has instead one pair of side hoes, which can be used to better advantage on such a tool. The wheels may be adjusted to enable plants to be worked on both sides of row. Price \$6.00



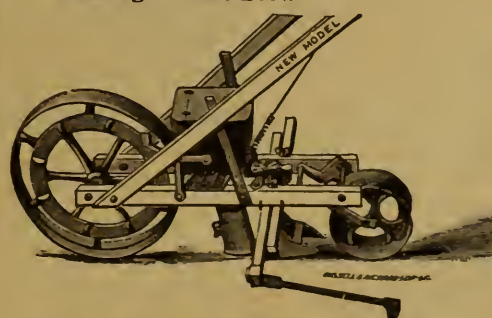
No. 1 Iron Age Double Wheel Hoe

Double Wheel Hoes possess very great features over the single wheel machines. One point is that a row of plants may be worked complete on both sides with safety, and the entire soil gets thoroughly loosened without the least possible injury to the plants. The high centre arch enables this type of machine to be used where others would not be so practical. Two rakes, not shown, accompany this tool. Price, \$7.00.

No. 3 Wheel Hoe is the above machine with vine lifters and one pair sides hoes only. Price, \$4.25.

IRON AGE HAND PLOV

For making furrows, hilling, etc. Price, each, \$1.35.



THE MODEL SEED DRILL

The depth of sowing can be regulated to any desired distance. It is well named the market gardeners' drill, having a large capacity for seeds, and is a wonderfully efficient machine. Price, \$8.00.

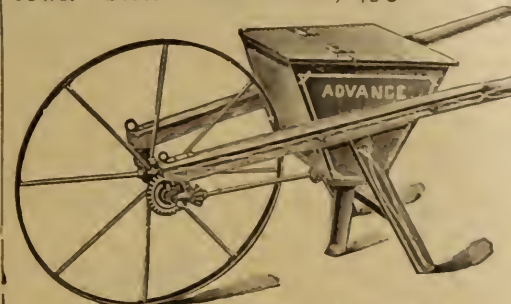


No. 22 Combined Fertilizer Distributor, Hill and Drill Seeder

One of the most successful seed and fertilizer drills ever made. The fertilizer is distributed more accurately than if put on by hand, and the two operations are done in one. Price, \$18.00.

No. 19 C CULTIVATOR

Has 24 inch steel wheel. Two sizes of single teeth that work between narrow rows, a landside plow, a scuffle hoe and a set of three teeth on one bracket for hoeing and cultivating between the wider rows. Steel frame. Price, \$3.50.



"ADVANCE" DRILL

A shut-off, to prevent the escape of fertilizer when wheeling around end of row, is a late improvement; being one of those little things which go far, however, in making a tool valuable. A first-class machine for the drilling of peas, corn and fertilizer.

Price, each \$6.75

No. 6 Double and Single Wheel Hoe and Combined Hill and Drill Seeder



From a Seed Drill this tool can be converted into a Wheel Hoe, either single or double, it requiring but about three minutes to change to a Double Wheel Hoe and about two minutes to a Single Wheel Hoe, by an inexperienced operator. Price, as in cut, \$12.00; No. 7 as Drill only, \$9.00

NO. 4 COMBINED DOUBLE and SINGLE WHEEL HOE and DRILL SEEDER

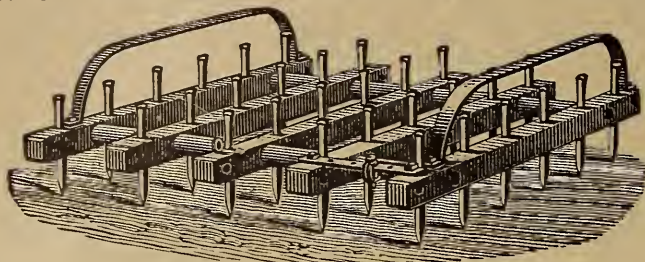
Similar to the No. 6 Combined Double Wheel Hoe, Hill and Drill Seeder. It only differs in the seed sowing device and opening plow. Both tools as Double and Single Wheel Hoes are identical. The seed sowing device of our No. 4 is only designed to sow seeds in continuous rows. Price, complete, \$11.00; No. 5 Drill Seeder only, \$8.00.

IRON AGE WHEEL HOE PARTS

Gem Landside Plov	\$0.90
Iron Age Landside Plov .....	.90
Weeder for Single Wheel Hoes .....	.80
" " Double " " pair	1.10
Side Plows, right or left .....	.40
Side Hoes, right or left .....	.50
Rakes, 6-tooth .....	.40
Teeth, Gem .....	.35
Teeth, Iron Age .....	.15

Write for Complete Catalog on "Iron Age" Goods—Free

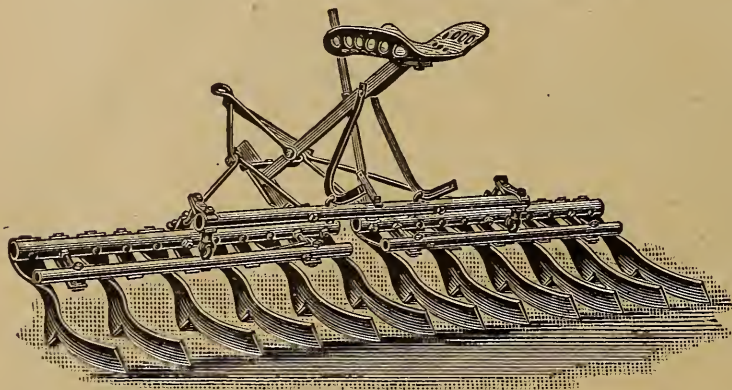
GARDENERS' SPIKE TOOTH HARROWS



Though old-fashioned in appearance and construction, this harrow is still preferred by many; fitted with runners, upon which it may be turned to take it from place to place.

Price, 25 teeth.....\$6.00 Price, 30 teeth.....\$7.00

ACME PULVERIZING HARROW

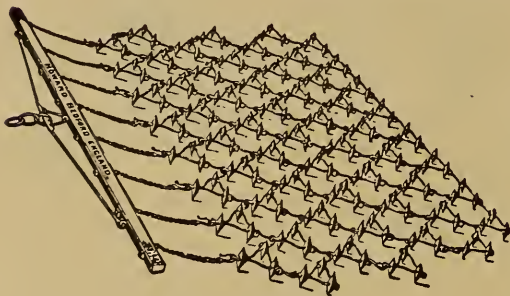


This will be found by those having a large acreage an indispensable implement, for pulverizing and crushing the ground so thoroughly as to give it the appearance of being done by hand.

No. 23. Price, 6 ft. covering area, 2-horse.....\$18.00

No. G. Price, 3 ft. covering area, 1-horse..... 14.50
 Extra blades, 50c. each.

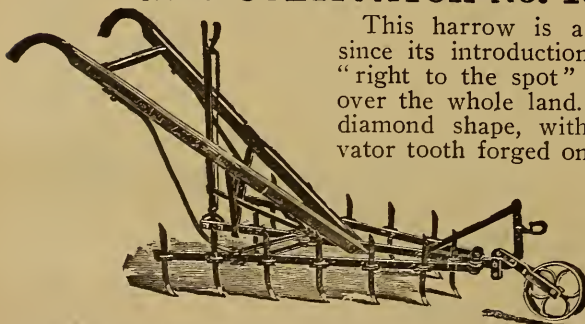
SCOTCH CHAIN HARROW



One of the best implements for pulverizing the surface soil, leveling and smoothing, and is also splendid for covering grass seeds, etc. Used on driveways and race tracks, it smooths the surface, eliminating ruts and footprints

Weight
 No. 1F. One-horse size, 5x6 feet.....126 lbs. \$18.50
 No. 2F. Medium two-horse 6x7 3/4 feet.....236 lbs. \$26.50
 No. 3F. Full two-horse size, 9x11 feet.....357 lbs. \$32.00

IRON AGE DIAMOND TOOTH HARROW AND CULTIVATOR No. 1014



This harrow is a tool that has, since its introduction, seemed to go "right to the spot" among farmers over the whole land. The teeth are diamond shape, with a small cultivator tooth forged on one end—steel, of course. For very close work, every other tooth can be quickly removed. Cultivating width

when equipped with lever expander, 34 inches; with plain expander in place of lever expander, 38 inches.

Price complete, as in cut\$5.50
 " without wheel, with lever 4.90
 " " or lever 4.10

PLANET Jr. TWELVE-TOOTH HARROW CULTIVATOR AND PULVERIZER

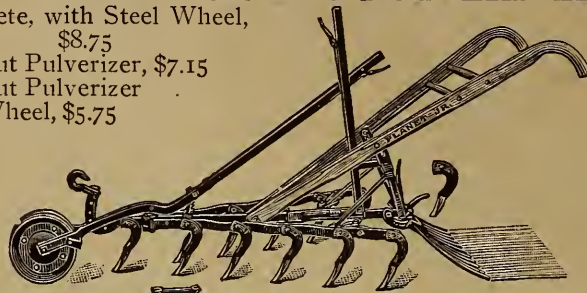
Complete, with Steel Wheel,

\$8.75

Without Pulverizer, \$7.15

Without Pulverizer

or Wheel, \$5.75



With the Twelve-Tooth Harrow here shown, you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil, mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry growers, market gardeners and truckers.

SINGLE AND

DOUBLE TREES



Wood Single Trees, 26 inches, hooks or rings; price.....\$0.75

" " 28 " " " " "85

" Double " heavy No. 2 " " " " 2.50

Steel Single " 24 inches, " " " " 1.00

" Double " 33 in., No. 1 " " " " 3.50

WALTER A. WOOD HARROWS

Steel Frame, Spike Tooth Type



These are equipped with a lever for lessening or increasing the depth of cultivation and are adjustable instantly. The teeth are equipped so as to readily pass any

obstruction in the soil.

50 tooth, 2 sections, with draw bar.....\$12.50

60 tooth, 2 sections, with draw bar..... 13.50

75 tooth, 3 sections, with draw bar..... 17.50

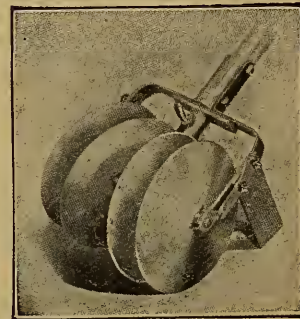
These Harrows may be divided in single sections, if desired to use with one horse.

PERFECTION CULTIVATOR

The only garden tool made that throws the soil to or from the plants without extra attachments.

Perfection at last. This New Disc and Knife Weeder and Mulcher is the final evolution in hand Cultivators. It excels and supersedes all. In it is found the best characteristics of others simplified to the accommodation of the professional trucker or home gardener. It does the weed killing, cultivating and mulching at one process. This is something that

no other cultivator accomplishes. Price, \$5.00 each.

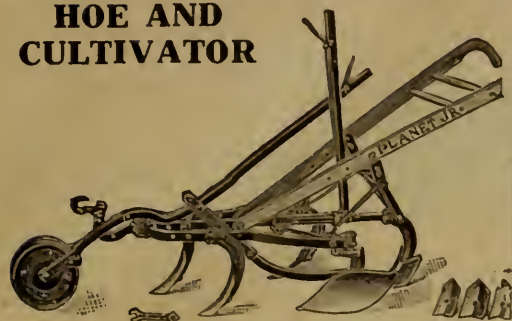


EUREKA SEED DRILL

A handy device for sowing small quantities of any of the small seeds, such as Radish, Beet, Spinach, Lettuce, Celery, etc. For hot bed work or for the small kitchen garden this is an ideal drill. It has regulating devices for governing the quantity of seed to be sown, and is equipped so that a long handle can be attached thereto, to prevent bending over. Price, 75c. Parcel Post Weight, 3 lbs.



No. 8 PLANET Jr. HORSE HOE AND CULTIVATOR



Made of steel throughout. The lever wheel and depth regulator enable the operator to increase or lessen the depth of tilling by the mere stroke of the arm. The side or covering steel and shovel which is in the rear may be taken off and the arms so turned that when the extra teeth, which accompany the machine, are attached, it presents a perfect five-toothed cultivator.

Price.....\$8.50

No. 101 PLANET Jr. CULTIVATOR



The latest Planet Jr. Plain Cultivator with improved expander. Light in weight but very strong. A tool that will give universal satisfaction.

Price, \$5.25; weight, 46½ lbs.

Price without wheel, \$4.50.

PLANET Jr. 7 TOOTH CULTIVATOR



Many gardeners like the 7-tooth cultivator, because it prepares the soil better than does the 5-tooth machine. Price, complete with steel wheel, \$7.25. Without wheel, \$6.25.

IRON AGE CULTIVATOR TEETH

No.	Width	Each	No.	Width	Each
0—1¼-in....		\$0.10	82—3-in....		\$0.11
96—1½-in....		.10	83—3½-in....		.13
1—2-in....		.10	84—4-in....		.14
89—2½-in....		.10	68—4-in....		.12

Bolts for Teeth, 3c. each; per doz., 30c.

No. 104 PLANET Jr. HORSE HOE



A new light, strong combined Horse Hoe and Cultivator with lever wheel and lever expander. It has all the qualities of the older model, Planet Jr. Horse Hoes, though lighter and better adapted to many kinds of work where a heavy tool is not necessary.

Price, complete, \$6.75; without wheel, \$5.50.



Planet Jr., Double Celery Hiller

PLANET Jr. CELERY HILLERS

For throwing earth against celery plants prior to blanching, nothing equals this machine. Made in two styles. Single, for hilling one side of the row. Double, for hilling one side of 2 rows. Price, double style, \$15.50; single style, \$12.50.

No. 1005 IRON AGE CULTIVATOR



Largely sold in those sections of the country where labor is inefficient and a cheap and simple tool is desirable.

Price, as in cut, \$3.50; with plain wheel, \$4.00; with lever expander, \$4.25; with lever and wheel, \$4.75.



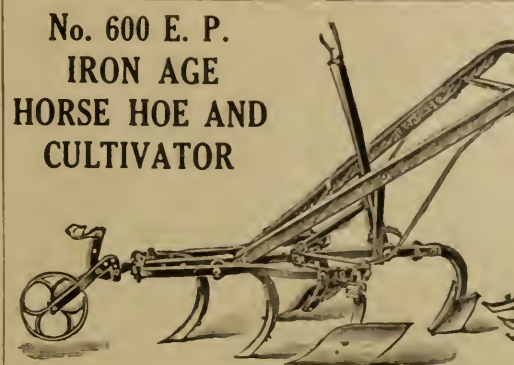
Cultivator Teeth (See Prices Opposite)

No. 6—FIG. 71 7 TOOTH IRON AGE CULTIVATOR



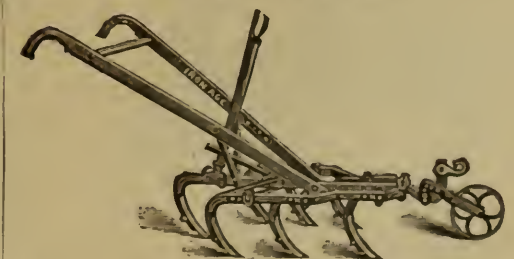
By means of the lever wheel the depth may be regulated with a single stroke of the arm; the expanding lever renders it able to go through very narrow rows successfully. The cultivator may also be used as a five-tooth machine by merely unbolting two teeth and arms. Price, \$6.75.

No. 600 E. P. IRON AGE HORSE HOE AND CULTIVATOR



Equipped with side steels or coverers, which can easily be detached, and the regular cultivator teeth, which accompany each implement, attached. Price, \$6.25.

No. 1007 E. P. IRON AGE HORSE HOE AND CULTIVATOR

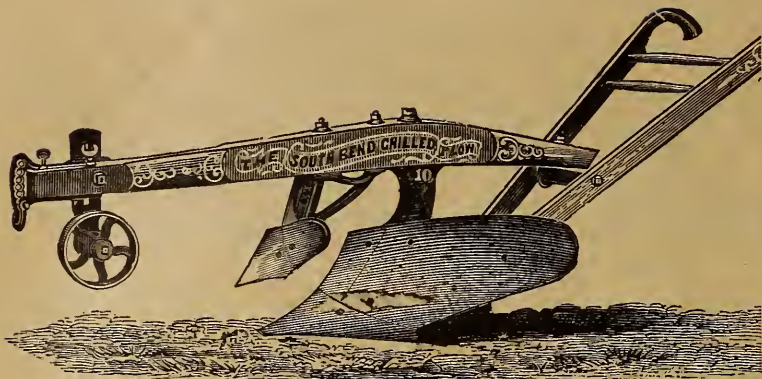


One of the best of the 7-tooth Iron Age equipments; the teeth are narrow, which enables it to do fine work, tilling deep and yet not injuring young plants. If it is desired to use this machine with less teeth than accompany it, any excess may be easily detached. Price, as in cut, \$5.65.

IRON AGE HORSE CULTIVATOR PARTS

Handles, complete	\$0.75
Handles, each .....	.30
Handle Rounds .....	.10
Wheels, plain, No. 2 .....	.50
Wheels with Lever	1.00
Expanding Levers	1.20
Expanding Clamps .....	.25
Clevis .....	.15
Wrenches .....	.10
Diamond Harrow Teeth .....	.12

MICHELL'S FARM, GARDEN and LAWN TOOLS



SOUTH BEND PLOWS

The South Bend Plow is one of the most popular and efficient makes on the market to-day. For private garden, farm or truckers work, it meets every requirement; made of chilled steel in various sizes to meet all conditions.

No. 1 B Wood Beam plain, one horse	\$5.50
No. 2 F " " " one horse, heavy; or two horse light	8.00
No. 3 A Wood Beam plain, two horse	10.00
No. 4 " " " two horse, heavy	10.50

The No. 2-3-4 SB Plows can be equipped with wheel and jointer at the following additional cost—for wheel only \$1.00; for jointer only, \$2.00; for wheel and jointer together, \$3.00 extra. Prices named above are for plain plow.

We can also supply Gale, Oliver and Syracuse Plows.

Price List of South Bend Plow Parts

	Shares	Mouldboards	Beams	Handles	Jointerpoints	Landsides
No. 1 B	\$0.30	\$1.50	\$0.75	\$1.25		\$0.40
No. 2 F	.35	2.50	.90	1.25	\$0.20	.75
No. 3 A	.35	3.00	1.00	1.50	.20	1.00
No. 4	.40	3.25	1.25	1.50	.20	1.00

BROADCAST SEED SOWERS



Rittenhouse Seeder



Cahoon Seeder

For accurately sowing Timothy, Clovers, Millets and heavy seeds of grass and other farm crops. Can be regulated to sow any required quantity per acre.

Cahoon Make, each..\$3.25
Rittenhouse, each.... 1.75

THE CHAMPION SOD CUTTER



The best and most satisfactory machine on the market. Sod cutters are now used extensively where any great amount of cutting is to be done; work can be accomplished better with this machine; you can cut as much in one hour as two men all day.

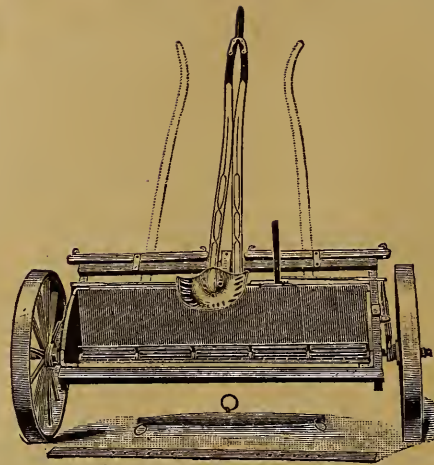
Price, \$23.00.

Extra Knives for Sod Cutters.....each \$4.50

THE STEVENS FERTILIZER DISTRIBUTORS



For distributing bone meal, wood ashes, and other commercial fertilizers on fields, lawns, golf courses, etc., also for sanding putting greens. Insures perfect and even distribution, requiring less time than by the broadcast hand process. **Hand Machine** holds about 1 3/4 bu., nicely finished, covering area 3 ft. wide. Price \$12.00.



Horse Machine. For use on large lawns, fields and Golf grounds. It has a device for regulating the quantity to be sown. It is equipped with broad tires, which do not readily cut into the ground. Equipped for either one or two horses, as may be desired. 5-ft. 10-in. spreading area, \$42.50; 8-ft. 3-in. spreading area, \$47.50; 10-ft. 3-in. spreading area, \$50.00.

"VELVETLAWN" SEEDERS



For properly sowing grass seeds on lawns and putting greens already in sod. It places it in the ground in close furrows, covers and rolls it at one operation. The result is an even, quick growth of grass, also used for distributing fertilizers. The horse machine is especially valuable for seeding large golf courses, pastures and lawns on private estates; for drilling in clover, alfalfa and similar seeds it works perfectly. The horse machine is adapted to sowing either new lawns or old, but the problem of putting seed on old lawns and being sure it is properly covered so it will not blow away, but grow, is solved by these machines entirely. Any light horse handled by a boy can use the larger seeders, while an average man can use the hand machine.

Hand Machine, seeding 16-inch area. Price, \$15.00.

Horse Machines

1 horse, seeds 48-inch area, with automatic press wheels..\$45.00
2 horse, seeds 48-inch area, with automatic press wheels.. 67.00

Price on Horse Power Velvet Lawn Seeders is f. o. b. factory in Ohio.

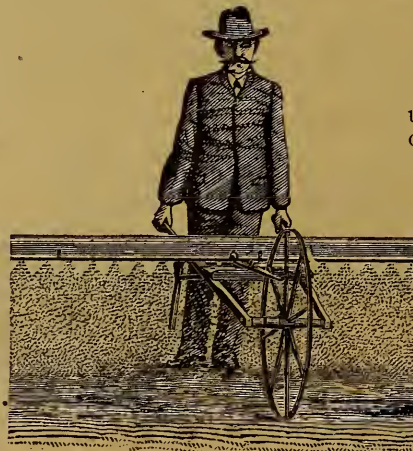
WHEELBARROW GRASS SEEDER

This machine is now largely used for distributing grass and other seeds over large areas.

The distributing box is very near the ground, which is an important feature, preventing the seed from blowing away and thus coming up unevenly.

No. 9 (especially for Grass Seed), \$8.50.
No. 5. \$7.50.

These seeders sow an area 14 ft. wide.



All prices subject to market changes

(hn)

LAWN MOWERS and LAWN ACCESSORIES, Etc. 199

TOWNSEND GOLF WONDER MOWER

For putting Greens this is a Cracker Jack. Price without grass box: 16-inch, \$18.00; 18-inch, \$20.00; 22-inch, \$22.00.

Grass Boxes extra, including metal fan and deflector, for any size Townsend Golf Wonder, \$3.00 each.



LAWN TRIMMERS

Pennsylvania Style. This machine will trim against fences and closer to walls or tombstones than any other machine now made, and will not scrape or smudge the object against which it is cutting. Ball bearing, under cut style, \$6.00; plain bearing, straight cut style, \$5.00.

Coldwell Trimmer. This is an excellent machine for trimming around flower beds, shrubbery and walk edges. The revolving cutter is 6 in. wide, and cuts within 1/4 in. of side obstruction. Price, \$5.00.



Penna. Undercut Lawn Trimmer

CAPITOL LAWN TRIMMER AND EDGER

A remarkably practical device; can be used as a lawn trimmer also as an edger for walks, driveways, flower beds, etc. The revolving disc is made of fine tempered steel, which makes cutting easy. It can be converted into either a trimmer or an edger in a few seconds by simply turning the machine over and making a slight adjustment of a brace rod. Price, \$6.00.



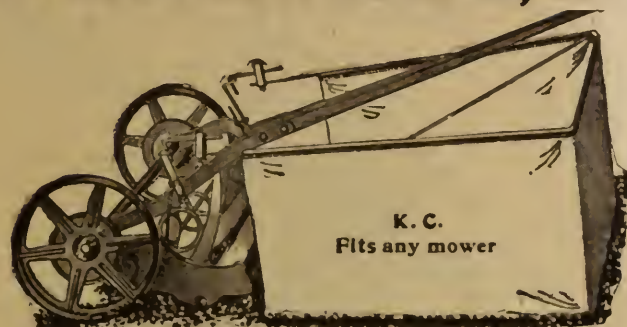
Capitol Lawn Trimmer

G. M. LAWN MOWER SHARPENER

For sharpening hand mowers in a few minutes. Directions for using are as follows:

The roller set in on long side of casting runs on side of revolving blades against the cutting edge. The roller on spring runs on the opposite or back side of blade, and can be adjusted to any thickness of blade and when properly set will give you a uniform bevel on blade, the rollers following the twist of the blade. Will also sharpen the under blade or dead knife. When set on either the cylinder or stationary knife the same are sharpened by working this device back and forth until a good edge has been obtained.

Price, 50c. each, postpaid. Extra files, 2 for 25c.



THE K. C. GRASS CATCHER

There always have been makes of mowers on the market that could not be properly fitted with a grass catcher. The K. C. is designed to fit any size or style mower and can be attached or detached in a moment. Made of galvanized iron bottom and canvas sides. Price, 12- to 16-in. size, \$1.25 each; 16- to 22-in. size, \$1.45.

BRAUN GRASS CATCHERS

For the Pennsylvania, Continental, Great American B. B. and New Departure Mowers.

10-in....\$1.50	14-in....\$1.80	15-in....\$1.90	19-in....\$2.10
12-in.... 1.60	16-in.... 1.90	17-in.... 2.00	21-in.... 2.25
		18-in.... 2.00	

GRASS BOXES FOR PENNA. HORSE MOWERS

Forward Delivery Grass Box, for 30-inch mower.....\$18.50

Forward Delivery Grass Box, for 38-inch mower..... 21.00

Grass Box for Pennsylvania Pony Mower..... 3.00

GRASS CATCHERS FOR REGAL MOWERS

14-in....\$1.60 | 16-in....\$1.70 | 18-in....\$1.80 | 20-in....\$1.90

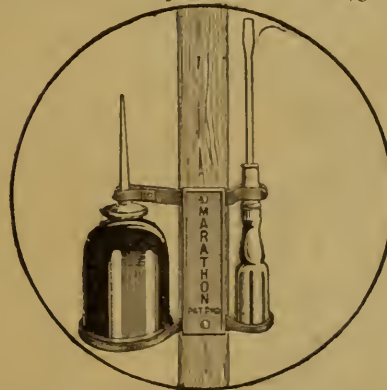
TENNIS COURT MARKERS

Junior Line-o-graph. A perfect liquid lime tennis court marker especially designed for private courts, works perfectly on grass or clay. \$15.00 each. F. O. B. factory. F. O. B. Philadelphia, \$15.50.

Universal Line-o-graph. Like the above but larger; adapted for golf and country club courts, \$30.00 each.



Junior Lineograph Tennis Marker



MARATHON TOOL BRACKET (For Mowers)

Comprises a device for fastening to hand lawn mowers. A screw driver and oil can, complete equipment, for 60c. Parcel Post Wt., 1 lb.

RAZOR EDGE MOWER SHARPENING BLADES

A simple thin steel blade which fits in between the knife back and the lower cutting blade, keeps a lawn mower sharp always; easily and quickly attached to any make mower. For hand machines, \$1.00; for horse machines, \$5.00.

Wire Horse Muzzles, used when mowing lawns or working the garden, 15c. each. P. P. Weight, 1/2 lb.

LAWN MOWER SHARPENING

This work is done for us by a competent mechanic, and we can insure entire satisfaction.

Horse Mowers, 25-in., \$5.50; 30-in., \$7.00; 35-in., \$7.00; 40-in., \$8.00.

Hand Mowers, 10 to 17-in., \$1.35; 18 to 21-in., \$1.60.

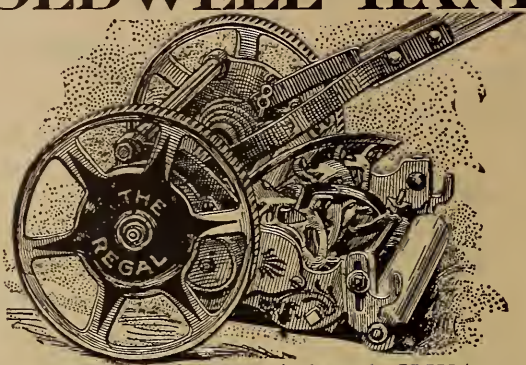
Golf Mowers (6 blades). 14 to 18-in., \$1.75; 19 to 22-in., \$2.00.

New parts required on repaired mowers supplied at factory prices. Above figures are for sharpening the cylinder and bottom blades only and does not include any new parts that may be needed.

COLDWELL HAND LAWN MOWERS

REGAL BALL BEARING HAND MOWER

This machine is made by the Coldwell factory and has been thoroughly tried out by us the past four years. We are glad to say that it has made good in every way.



14-in., 5-blade cyl., H.W. \$9.00 | 18-in., 5-blade cyl., H.W. \$11.00
16-in., " " " 10.00 | 20-in., " " " 12.00

Grass Catchers for Regal Mowers

14-in....\$1.60 | 16-in....\$1.70 | 18-in....\$1.80 | 20-in....\$1.90

COLDWELL'S PUTTING GREENS MOWER

One of the first of this style mower to be placed on the American market. It is still a favorite in many sections and gives splendid satisfaction; it can be supplied in either chain drive or gear drive style as preferred.



We recommend the chain drive, as they seem to give the best service.

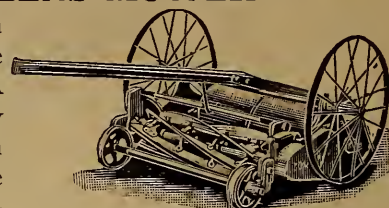
6-blade cyl. no grass catcher. | 4-blade cyl. no grass catcher.
14-in....\$11.50 | 18-in....\$14.50 | 14-in....\$9.75 | 18-in....\$12.75
16-in.... 12.50 | 20-in.... 16.50 | 16-in....10.75 | 20-in.... 14.75

Grass Catchers for Coldwell Putting Greens Mowers

14-in....\$2.00 | 16-in....\$2.15 | 18-in....\$2.30 | 20-in....\$2.45

COLDWELL'S DEMOUNTABLE CUTTER PUTTING GREENS MOWER

These machines are each provided with two complete sets of cylinder knives. A desirable feature, especially in a golf mower, which makes it impossible for the machine to be out of commission at any time, as the extra cylinder can be put on in less than a minute. The machine is equipped with an iron roller in the rear and in addition, a wheel carriage for transporting the mower from one putting green to the other. The cylinder has six blades.



The Coldwell Demountable Putting Greens Mower

16-inch, \$25.00; 18-inch, \$30.00; 20-inch, \$35.00.

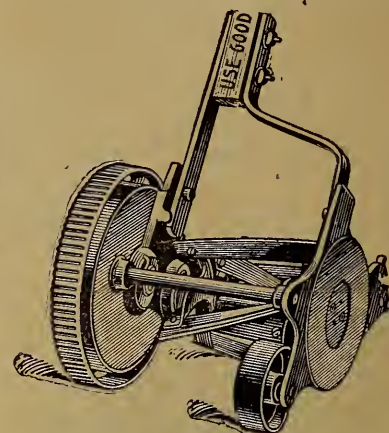
If the extra cylinder is not wanted, deduct from the above prices as follows: 16-inch, \$7.00; 18-inch, \$8.00; 20-inch, \$9.00.

COLDWELL TRIMMER

This is an excellent machine for trimming around flower beds, shrubbery and walk edges. The revolving cutter is 6 inches wide, and cuts within 1/4 inch of side obstruction. Price, \$5.00.

COLDWELL GEM MOWER

Cuts an 8 inch swath, suitable for a child or lady to use. Made of high grade material, suitable for very steep terraces or in positions where an ordinary lawn mower cannot be employed. Price, \$5.00.

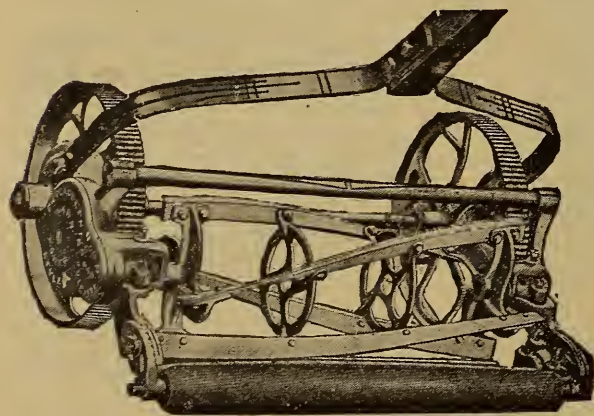


The Coldwell Lawn Trimmer

PHILADELPHIA HAND LAWN MOWERS

We guarantee every Genuine "PHILADELPHIA" Mower; will replace, free of charge, all defective parts. The Spiral Vanadium Crucible Steel Blades riveted to malleable iron rings and ends with best Norway iron rivets, two rivets at the ends of each blade assuring strength.

STYLE "A" ALL STEEL



Style A Phila. Lawn Mower

All steel of finest quality. Diameter of cylinder 6 1/2 in. with four Vanadium Crucible Steel blades, cylinder bearings 1 1/8 in. x 1 1/2 in. long. Train of three heavy gears one side, operating double ratchet.

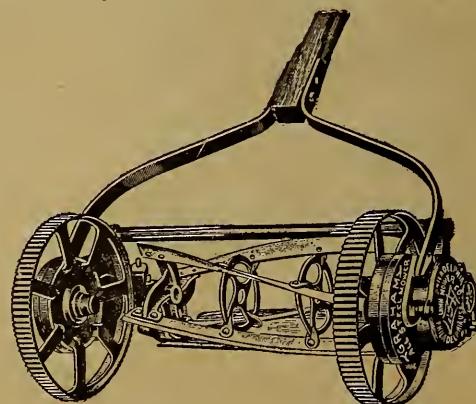
Bearings 5/8 in. x 2 in. Driving wheels 10 in. All bearings bored and reamed in pairs for extreme accuracy.

This and the "Graham" all steel are the two best lawn mowers in the World.

15-in....\$10.50 | 17-in....\$11.50 | 19-in....\$12.50 | 21-in....\$13.50

GRAHAM ALL STEEL

Manufactured to meet the demand of the discriminating purchaser who wants the best that money can buy. Positively the highest achievement in the Lawn Mower industry, no front rod. Diameter of cylinder 6 1/2 in. with four Vanadium Crucible



Graham Lawn Mower

Steel blades, Cylinder bearings 1 1/8 in. x 1 1/2 in. long. Train of three heavy gears on both sides, caps operating on bearings 5/8 in. x 2 in. long. Driving wheels 10 in. All bearings bored and reamed in pairs for extreme accuracy.

Removable box caps to take out cylinder for sharpening, without disturbing the frame of the machine.

Very strong, compact, light and durable.

15-in....\$13.00 | 17-in....\$14.00 | 19-in....\$16.00 | 21-in....\$17.50

STYLE "K"

Frame made of finest quality grey iron. Diameter of cylinder 6 1/2 in. with five Vanadium Crucible Steel Blades. Cylinder bearings 1 1/8 in. x 1 1/2 in. long. Train of gears on both sides operating on bearings 5/8 in. x 2 in. long. Driving wheels 10 in. All bearings bored and reamed in pairs for extreme accuracy.

Made with Plain or Roller bearings. We recommend plain bearings in this make. They last longer, give less trouble.

Prices, plain bearings, 14-in., \$6.50; 16-in., \$7.00; 18-in., \$7.50; 20-in., \$8.00.

Price for Roller Bearing Philadelphia Style K Mowers on request.

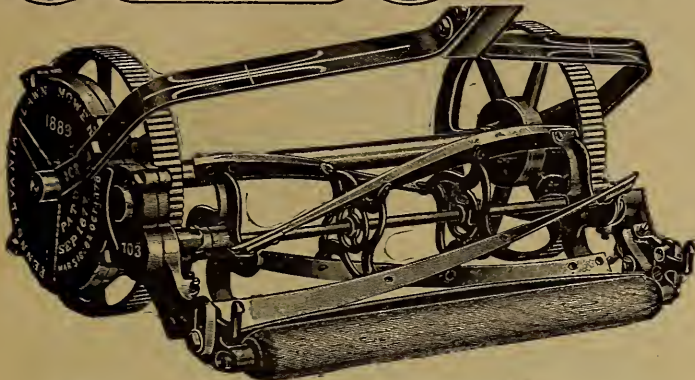
All prices subject to market changes

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THE PENNSYLVANIA LINE OF HAND LAWN MOWERS



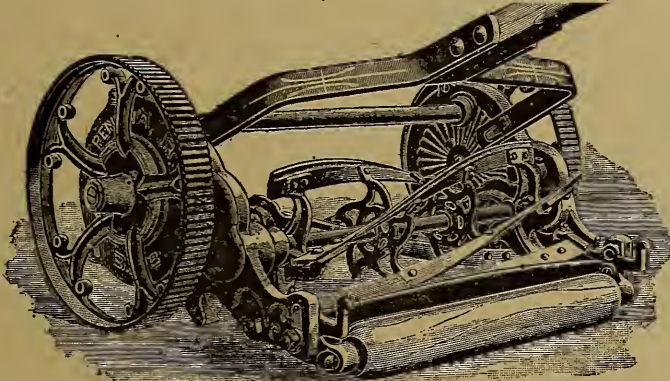
All blades in all mowers of this line are crucible tool steel and all castings fit accurately, insuring easy running, smooth cutting and almost noiseless action. When properly adjusted and so kept, the Pennsylvania line of lawn mowers are positively self-sharpening.



PENNSYLVANIA LAWN MOWERS

The regulation style for every day lawns that are mowed when required.

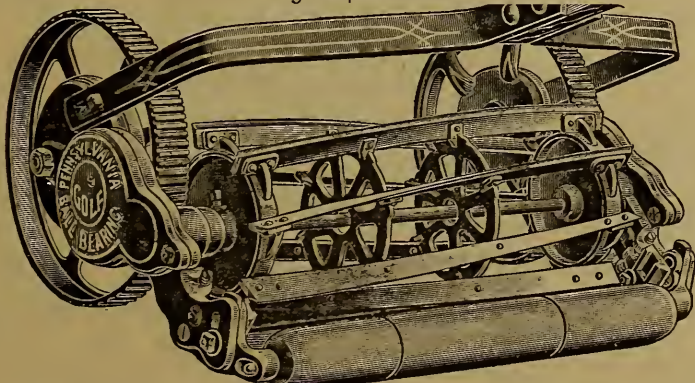
Low wheel, 8-in. diameter.		High wheel, 10½-in. diam.	
12-inch	\$8.00	15-inch	\$12.50
14-inch	9.00	17-inch	14.00
16-inch	10.00	19-inch	15.50
18-inch	11.00	21-inch	17.00



PENNA. JR. BALL BEARING MOWERS

To get the best results from this machine, which does exceptionally fine work, the lawn should be mowed at regular intervals. It cuts the grass shorter than the 4-bladed machine, hence requires mowing at stated periods when the grass is growing rapidly.

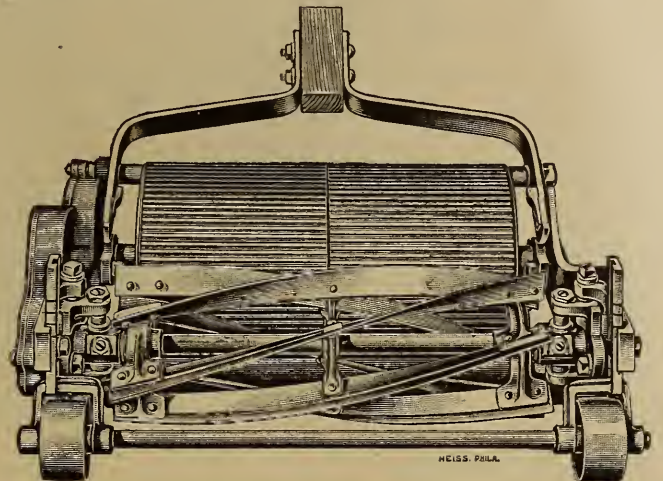
8-inch or low wheel, 5-blade cylinder, 5½-inch diameter.		10-inch or high wheel, 5-blade cylinder, 6-inch diameter.	
12-inch	\$9.00	16-inch	\$11.00
14-inch	10.00	18-inch	12.00
15-inch	\$13.50	19-inch	\$16.50
17-inch	15.00	21-inch	18.00



PENNSYLVANIA GOLF LAWN MOWER

For putting greens and close cutting around golf courses, tennis courts, etc.

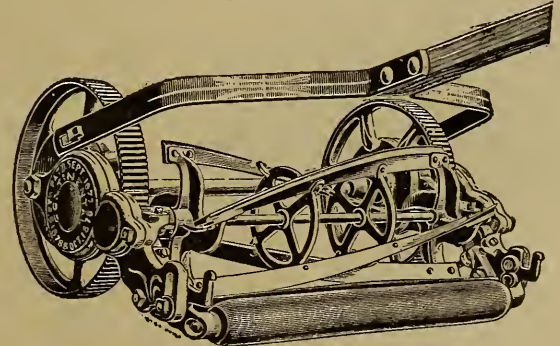
9½-inch, high wheel, 7 blades, ball bearing.		
17-inch	\$20.00	21-inch \$24.00
19-inch	\$22.00	



PENNA. PUTTING GREENS MOWER

Designed for cutting wavy or undulating greens, which are very popular on some courses. It is gear driven, with a 7-inch iron roller in the rear and a wooden roller in the front, to support the machine. The mower can be set to cut as close as ⅛ inch. Equipped with a 6-blade cylinder, 5½ inches in diameter.

10-inch cut	\$11.00	16-inch cut	\$17.00
12-inch cut	13.00	18-inch cut	19.00
14-inch cut	15.00		



CONTINENTAL LAWN MOWERS

On a par for quality and construction with the Pennsylvania mower, except that this is geared on two sides instead of one.

High wheel, 9½-in. diameter.		Low wheel, 7¼-in. diameter.	
15-in...	\$12.50	12-in...	\$8.00
17-in...	14.00	14-in...	9.00
19-in...	\$15.50	16-in...	\$10.00
21-in...	17.00	18-in...	11.00

GREAT AMERICAN MOWERS

A double geared mower which gives fine results, and is of lasting qualities.

10½-inch high wheel, 5-blade cylinder, ball bearing.			
15-in...	\$10.00	17-in...	\$11.00
19-in...	\$12.00	21-in...	\$13.00

NEW DEPARTURE LAWN MOWERS

9½-in. wheel, 4-blade cyl.		7-in. wheel, 3-blade cylinder.	
12-inch	\$7.25	12-inch	\$4.50
14-inch	7.75	14-inch	4.75
16-inch	8.25	16-inch	5.25

ORCHID MOWER

High wheel, ball bearing.	
14-inch	\$5.00
16-inch	5.50
18-inch	6.00

ELECTRA MOWER

8-in. wheel, 3-blade cylinder.	
10-in...	\$3.25
12-in...	3.50
14-in...	3.75

SHOCK ABSORBER N. D. MOWER

Made by the Pennsylvania Lawn Mower factory; a fool proof machine; high wheel mower.

15-inch	\$8.00	17-inch	\$9.00	19-inch	\$10.00
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All Prices subject to Market Changes

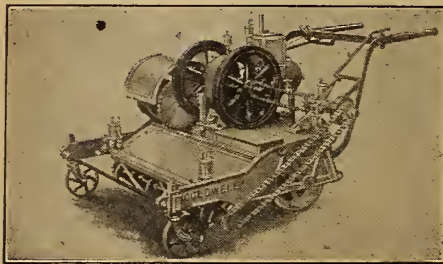
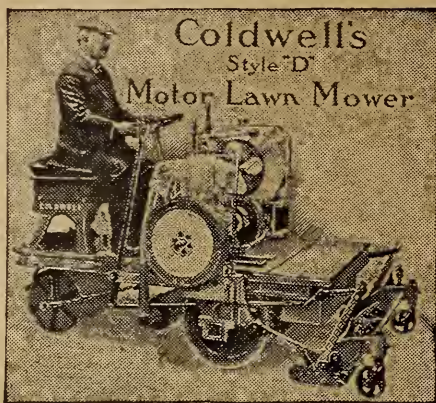
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HORSE and MOTOR POWER LAWN MOWERS

COLDWELL MOTOR MOWERS

Prices of these machines are net cash on delivery.

This machine does the work of three horse mowers that require three men to care for same. It uses one gallon of gasoline per hour; thereby saving the expense of two men and three horses. Stays in order (proved by twelve years' service); expert knowledge not required to operate. Climbs a 25% grade. Thoroughly irons out the lawn while cutting the grass and leaves no hoof prints. No expense when not running. Over 1000 now being used by the United States Government, public parks, private estates and leading golf clubs throughout the world. Can be used as a lawn roller only. 40-inch cutting area. Net cash price f. o. b. Newburgh, N. Y., \$1300.



Type of Models F, G and H

Equipped with a motor, capable of propelling the mower through almost any height of lawn grass and up grades as steep as 25%. They are also equipped with Coldwell's patented demountable cutting units. This device is an extra cutter part, composed of the revolving and stationary knives and the necessary parts to carry them, which can be removed from the machine in a few moments and replaced by the other unit, which is shipped with this mower at no extra charge.

They are also equipped with a new patented device for raising the knives when crossing gravel walks, roads, etc., thus protecting them from injury. Clutches are provided to throw the traction rollers, as well as the revolving cutters, in and out of gear. The workmanship and finish of these mowers is guaranteed in every respect. Prices net cash f. o. b. Newburgh, N. Y.

Model F. 40-inch cutting area.....\$475.00

Model G. 35-inch cutting area..... 325.00

Model H. 30-inch cutting area..... 250.00

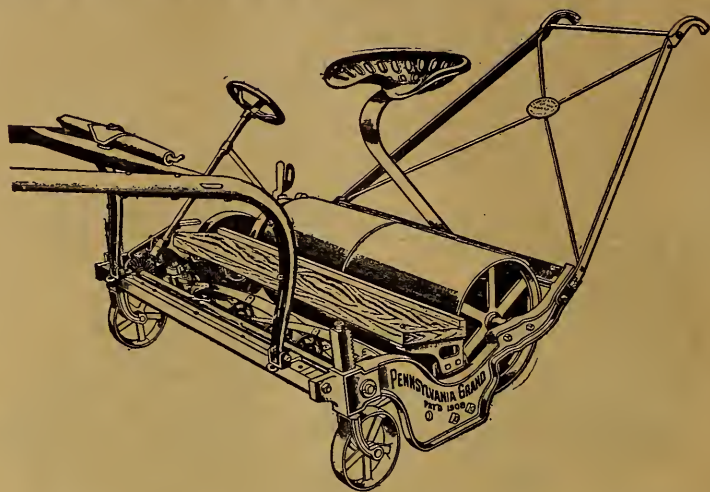
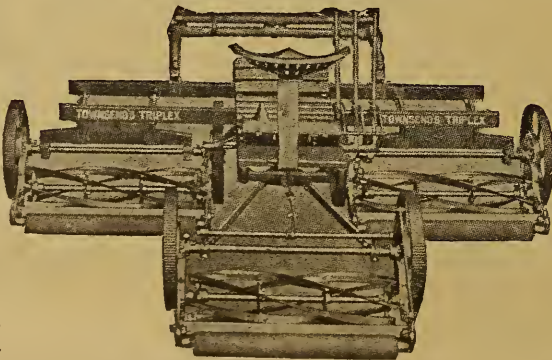
Any of the Coldwell Motor Mowers can be used as lawn rollers independent of the mowing feature.

TRIPLEX HORSE LAWN MOWERS

These are combinations of three mowers harnessed together as the illustration will show, yet one horse is capable of operating the same. They are being used with splendid satisfaction on golf grounds, parks and country estates, and accomplish a vast amount of work in a short time.

Townsend Triplex. Cutting width 84 inches; f. o. b. Orange, N. J., \$250.00.

Shawnee Gang Mower. Cutting width 84 inches; f. o. b. Jersey City, N. J., \$250.00.



PENNSYLVANIA HORSE AND PONY MOWERS

Pennsylvania Regular Style

25-in. Pony, with wooden rear roller, 4-blade cylinder.	\$30.00
25-in. Pony, with wooden rear roller, 6-blade cylinder.	36.00
30-in., with draft irons only.....	60.00
30-in., with seat and shafts and side draft attachment..	72.00
38-in., with draft irons only.....	78.00
38-in., with seat and shaft and side draft attachment..	90.00

Pennsylvania Grand Horse Mower

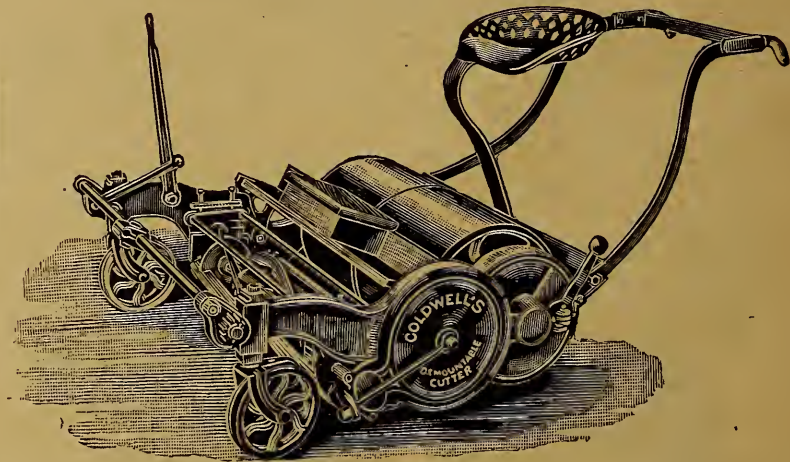
30-inch cut, with draft iron, no seat or shafts.....	\$65.00
38-inch cut, with draft iron, no seat or shafts.....	85.00
30-inch cut, with seat and shafts.....	77.00
38-inch cut, with seat and shafts.....	100.00

The above prices are for 4-blade mowers; if 6-blade mowers are desired, add \$8.00 to the price of each machine.

Philadelphia Horse Mowers

Eagle 30 inches with seat and shafts.....	\$70.00
Eagle 35 inches with seat and shafts.....	85.00
Eagle 40 inches with seat and shafts.....	102.50

We can also furnish all other styles of Philadelphia Horse Mowers.



COLDWELL HORSE AND PONY MOWERS

25-in. (Pony Style)....	\$37.50	35-in., seat and shafts..	\$75.00
30-in., with draft irons.	55.00	40-in., with draft irons.	85.00
30-in., seat and shafts..	60.00	40-in., seat and shafts..	90.00
35-in., with draft irons.	70.00		

Note.—The above prices are for 4-blade cylinders; if 6-blades are desired, add \$6.00 to the price of each machine.

Coldwell Demountable Cutter Style (See illustration above)

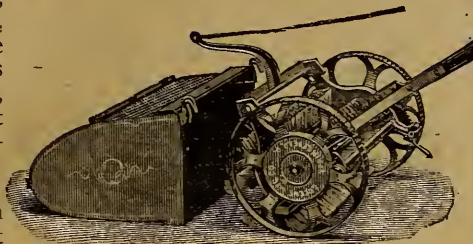
Equipped with two sets of revolving cutter knives.

	With Drawbale and Single Tree	With Seat and Shafts
30 inches	\$95.00	\$100.00
35 "	120.00	125.00
40 "	145.00	150.00

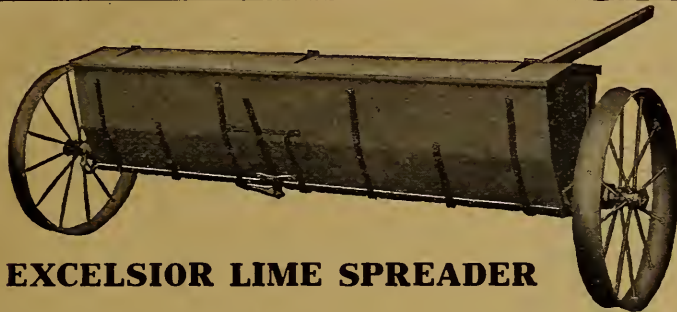
MICHELL'S LAWN, ROAD AND FIELD APPARATUS 203

APOLLO LAWN CLEANER

For sweeping lawns, paths, putting greens, tennis courts, etc. The revolving brush gathers up the smallest particles, leaving the surface swept very clean. The sweeping area is 28 inches; equipped with rubber-tired wheels, which makes them almost noiseless in operation. Price, \$17.00.



Apollo Lawn Cleaner



EXCELSIOR LIME SPREADER

For sowing lime or top dressing with fertilizer this appliance is without a peer. Constructed so that it cannot clog; it is self-feeding; can be regulated easily to sow more or less as desired. No. 1 size, 8 ft. spreading area. Price, f. o. b. factory, Springfield, Ohio, \$35.00, or \$38.00 f. o. b. Philadelphia.



LINK'S LAWN BOOT

For Horses

Made of very heavy sole leather, waterproofed and finished black. The sole is substantially reinforced with steel rivets, which make the boot last twice as long as it ordinarily would.

No. 2—5½ inches inside.

No. 4—6½ “ “

No. 6—7 “ “

Price, per set of four, \$9.00.

Special Size Horse Boots made to order. Place the horse's feet on a blank paper, drawing a pencil around it to show size.

Hunter's Steel Lawn Boots for horses. Made in three sizes, to fit the average horse. These are polished; they fit around the horse's hoof, clamping on the rear of the shoe; it is not necessary to especially shoe the horse to use these. In ordering send a sketch of 1 hind and 1 front foot of the horse, which can best be obtained by placing paper and draw a pencil line about it. Price, per set of 4, \$7.00.

KEYSTONE CORN PLANTER



Keystone Corn Planter

This is operated with one horse and will plant from 10 to 12 acres per day in either hills or drills, as desired. Equipped with a Fertilizer Attachment, which operates very accurately. It will also plant peas, beans, mangels, or other seeds, when equipped with proper regulating rings, which we can furnish at 25c. each. Price, complete, without extra crop rings, \$15.00.

PENNA. LAWN CLEANER AND RAKE



There is no equipment that can take the place of this indispensable apparatus; the name "comb and brush for the lawn" has often been applied to it. The flexible rake bars are of wood, with steel springs and teeth, they rotate just like a lawn mower cylinder and clean up every particle of leaves, mown grass, litter or rubbish, throwing it into a receptacle or bag in the rear, which is of large capacity. This can be detached and emptied at will.

24 inch rake....\$16.00
36 inch rake.... 25.00

Phila. Horse Lawn Sweeper. 40 in. width\$80.00

SOD PERFORATOR

A convenient implement for use in loosening soil where grass is worn out, without actually disturbing the turf bed. The space to be seeded with grass can be made with this device into a perfect seed bed, which will mean a quick growth of grass, after the seed is sown. It is used like a tamper, its own weight being sufficient to properly perforate the ground. Price, \$3.00.



Sod Perforator

SOD TAMPERS

When laying sod it is necessary to properly firm it down, so that it will take new root quickly. It is also convenient for firming the soil or lawn on places where a roller cannot be used; made of iron with wood handle, 12 inches square; weight, 20 lbs. Price, \$1.25 each.

RUBBISH BASKETS



Rubbish Basket

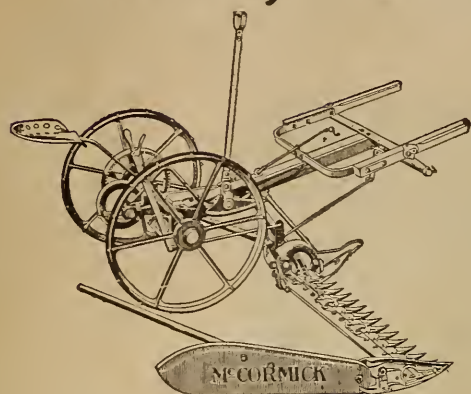
On all large places, on the lawn, in flower and vegetable gardens, a basket for gathering up rubbish and litter will be found a great convenience, especially when it is suited for the purpose. This basket holds 3 bushels and can be carried or wheeled from place to place on a barrow. Price, with rope handles, \$1.50 each.



Sod Tamper

All prices subject to market changes

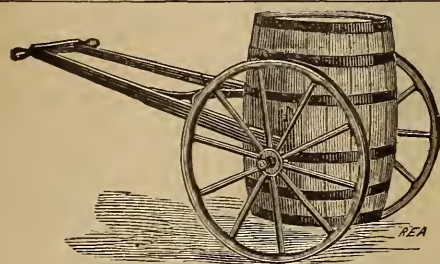
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McCORMICK MOWING MACHINES

These are now largely used for cutting on golf courses and large lawns, thus doing the preliminary work for the regular horse lawn mower. They are also equally well adapted for hay cutting.

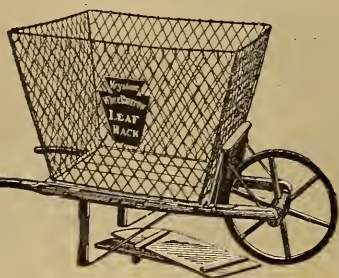
4½ and 5 ft. cut, vertical bar, 2-horse machine	\$48.00
4½ and 5 ft. cut (New 4) 2-horse machine	47.00
3½ and 4 ft. cut, vertical bar, 1-horse machine	42.00



BARREL TRUCKS, Etc.

The price below includes barrel and truck. The latter is constructed so that the barrel may be detached quickly and the leaf rack or stone box may be attached.

1½ inch tire truck, all iron wheels, with barrel	\$10.00
2½ " " " " " "	10.75
3½ " " " " " "	11.25
Extra Barrels , with trunnions, open head	3.50
Stone Boxes for attaching to the above truck	3.25



KEYSTONE LEAF RACKS

This new device can be used on wheelbarrows with removable sides. Convenient for gathering leaves, cut grass and rubbish. Has a capacity of 10 bushels; made of galvanized wire, bolted to a wooden base. Price, not including wheelbarrow, \$4.00.

IRON AND WIRE LEAF RACKS

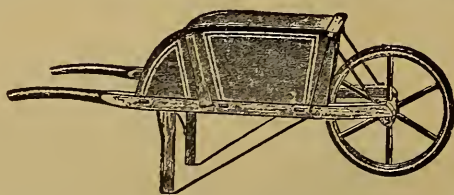
Excellent for gathering leaves, litter, grass, etc. They can be attached to a water barrel truck, shown above, instantly.

Leaf Rack	only, no truck	\$5.50
"	with 1½ inch truck	11.00
"	with 2½ " "	11.75
"	with 3½ " "	12.50

WHEELBARROWS

For Farm and Garden Use

The measurements of barrows are understood viz.: length, meaning inside length of body; depth, inside depth at front; width, outside width at handles.

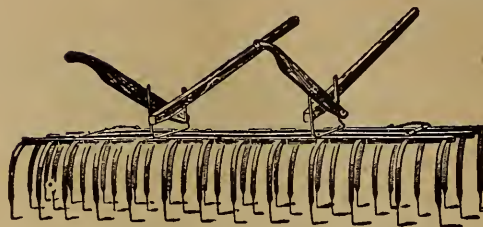


The "Eastern" Style garden barrow as shown in illustration is substantially built, carefully braced and bolted, just the kind of a barrow you would expect to give you long faithful service.

	No.	Tire In.	Length In.	Depth In.	Width In.	Price
Eastern	3	1½	28	11	22	\$3.75
“	4	3	26¼	11½	27	4.50
“	5	3	28¾	11¾	27	5.00
“(boys’ size) 2	2		21¾	9¼	20	3.00
Canal—Side dump (bolted)						2.50
Special Greenhouse Style with narrow body and handle widths						5.00

All prices subject to market changes

KEYSTONE WEEDER



The Keystone Adjustable Weeder

foot stretch. Any of the teeth can easily be removed, if it is desired not to cultivate very finely. The teeth are narrow, go into the soil easily; do not cultivate deep, like other machines. This tool is excellent for preparing a piece of ground prior to sowing lawn seed, etc. Equipped for one horse. Price, \$10.00.



PUTTING GREENS ROLLER

The day of the heavy roller, so far as its use on putting greens is concerned, has passed. Greens-keepers have found that a roller about 4 feet wide, weighing about 150 pounds, is the right thing. This is designated as a Golf Greens Roller.

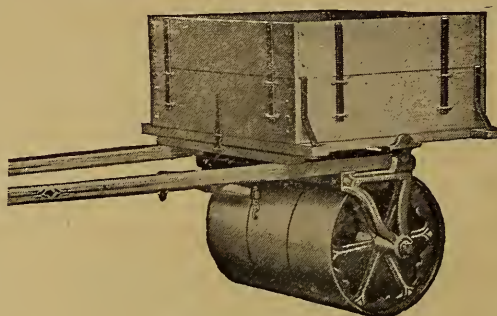
It is evenly surfaced and will not leave a mark or ridge on the greens.

Should be used every few days during Spring and early Summer and again in the Autumn.

Made of wood in
4 sections, \$16.00.

"VELVET GREEN" LAWN ROLLER CARTS

An extremely valuable apparatus, for use on Golf grounds or lawns. The device consists of a roller, 3 sections made of iron, equipped with shafts, and a large weight box directly on top of the roller. In addition to its being suitable for firming the sod, it also serves as a receptacle for gathering leaves.



sticks, stones or rubbish, that may have collected on the ground.
Weight, 900 lbs. Price, \$45.00 f. o. b. factory or \$50.00 f. o. b.
Philadelphia.

GEM SPRINKLING CARTS

This can be used for a multitude of purposes, chief among which is the sprinkling of Roads, carting water for live stock or for planting purposes. When used for the latter, a spigot can be attached to the tank for letting out the water, as required. Will sprinkle an area of 1000 sq. ft. on wheels. Price, \$1.00.



18 feet wide; 150 gallons capacity; 4-inch tire wheels. Price, \$87.50.



DUNHAM WATER BALLAST ROLLERS

The proper roller for most any occasion; fill it with water, which will weight it up to any number of pounds desired, as shown below; 24 inches in diameter, can be had in one or two sections. Equipped with counter balanced handle weights, which always keeps the handle in position ready for use; roller axle bearings. The two section roller is desirable on account of its not disturbing the turf or ground when being turned.

No.	Sec- tions	Diam.	Width	Weight Empty	Weight filled with Water	Price
H. W. 6.....	1	24	24	185	560	\$14.80
H. W. 8.....	1	24	32	200	710	16.40
H. W. 10.....	2	18	24	160	360	15.60
H. W. 12.....	2	24	32	230	710	20.40

We can also supply other sizes of Water Ballast Rollers.

BOSS HAND ROLLERS

Deservedly one of the most popular makes of iron rollers, the handles are carefully balanced. The variety of sizes and weights enable an easy selection, while the edges are beveled to prevent the road, path or lawn from being torn up while turning.



No.	In. Diam.	In. Wide	Sec- tions	Lbs. Weight	Price	No.	In. Diam.	In. Wide	Sec- tions	Lbs. Weight	Price
1...	15	15	2	150	\$7.60	8...	20	30	3	350	\$17.25
2...	15	22	3	200	10.00	9...	24	20	2	400	19.50
3...	20	16	2	225	11.25	10...	24	24	2	450	22.00
4...	20	20	2	250	12.50	11...	24	24	3	450	22.00
5...	20	20	1	250	12.50	12...	24	30	3	500	24.50
6...	20	24	3	300	14.75	13...	28	24	2	500	24.50
7...	20	24	2	300	14.75	14...	28	24	3	500	24.50

BOSS HORSE ROLLERS For Lawn and Golf Ground Use.

No.	Diam. In.	Lgth. In.	Sec- tions	Lbs. Weight	Price	No.	Diam. In.	Lgth. In.	Sec- tions	Lbs. Weight	Price
40...	24	30	3	650	\$41.00	43...	28	30	3	800	\$49.00
41...	24	40	4	800	48.00	44...	28	40	4	1000	59.00
42...	24	50	5	950	55.00	45...	28	50	5	1200	69.00

For Land or Field Use.

No.	Diam. In.	Lgth. Ft.	Sec- tions	Lbs. Weight	Price	No.	Diam. In.	Lgth. Ft.	Sec- tions	Lbs. Weight	Price
63...	24	5	5	1450	\$61.25	67...	28	6	6	1950	\$81.75
65...	28	4	4	1350	59.50	68...	32	4	4	2200	95.00
66...	28	5	5	1650	70.50	69...	32	5	5	2600	110.50

We can also supply other sizes of horse rollers.

MEHLER'S HANDY GARDEN TOOLS

These are the invention of a practical amateur gardener, who has spent much time and labor in perfecting them. Each tool is fitted for particular work and performs the same to perfection.

MEHLER HANDY GARDENER. For cultivating among flower beds, in the vegetable garden, etc., gets closer to the plant than any other tool. **Price, 75c.**



Handy Gardener

MEHLER HANDY SCRAPER. This was originally designed as a dropping-board scraper in poultry and pigeon houses. It gets in the corners easily and has a sharp crimped edge on the upper side, which is used to loosen up any hard substance. It is also suited for a variety of other work around the farm or garden. **Price, 75c.**



Mehler Scraper



Mehler Edger

MEHLER HANDY HOE. This will do what any half-moon and square hoe will accomplish. It has a wide side and a narrow side, while another part of it will answer as a rake to pulverize the soil. **Price, \$1.00.**

Please Note.—Mehler Garden Tools cannot be sent by Parcels Post.



Mehler Hoe

Happy Jack Sailor Wind Mill



An interesting feature for the children's garden, although they are equally practicable for the grown-ups. They revolve with the least puff of wind, and on account of their looks they serve as a scarecrow for undesirable birds or animals. They can be fastened to any tree, post, house or wash line pole. Please note while this illustration shows a pipe in the mouth of Happy Jack, the manufacturer is now omitting this feature. P. P. W. 3 lbs. Height, 15 in., \$1.25 each.

LAWN MOWER OIL



Pure oil that will not gum or get sticky is an essential for the satisfactory running of every mower. The oil sold by us has been selected with this point in view.

Prices: Per pint, 15c.; 25c. per quart; per ½ gal., 40c.; 75c. per gal.; 5 gals., \$3.00.

Lawn Mower Oil cannot be mailed.

OIL CANS

No.	P. P. Wt. 8 ozs.
3-539, Zinc	.....\$0.25
1113, Bronzed steel	.... .30
3-539, Brass	.... .45

EMERY

For sharpening Lawn Mowers. Price, 14c. per lb. (by mail, 30c.); 10 lbs., \$1.25.



FLAT FILES

For sharpening lawn mowers, etc.

	P. P. Wt.	
8 inch	8 ozs.	\$0.20
10 inch	12 ozs.	.25
12 inch	1 lb.	.30



SCYTHES

American, Little Giant, 32 inch	.....\$0.90
" " " 34 "	.....1.00
" " " 36 "	.....1.10

Little Giant Brush or Briar 1.00

The Little Giant is the best American-made scythe. It is excellent for field and heavy grass work.

English, 32 in., rivet back, Lawn Style	.....\$1.25
" 34 " " " " "	.....1.25
" 36 " " " " "	.....1.35
" 38 " " " " "	.....1.35

The English Scythes are best for fine grass or lawn work.



SCYTHE STONES

	Each	Doz.
Talacre, Imported (English)	.....\$0.25	\$2.50
Darby Creek	......10	1.10
Carborundum. Very fine	......25	2.50



SCYTHE HANDLES, Etc.

No. 50. Made of hard wood, well finished.	
Regular Scythe style	.....\$0.75
Snath Clips	......15



SICKLES or GRASS HOOKS

English	Little Giant	
English Rivet Back, No. 3	\$0.65
" " " 255
" " " 155
" Solid " 250
Dutch, small, " 130
" large, " 235
Little Giant50
Village Smithy, solid steel40

Grass Hooks are not mailable.

LAWN BORDER SHEARS

Made of finest English steel. They take the place of edging knives, and avoid the necessity of doing much stooping.

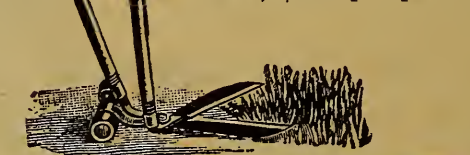
Without wheel.	
No. 104. 8½ in.	..\$2.00
No. 104 10 "	.. 2.50
With one wheel.	
No. 105. 8½ in.	..\$2.50
No. 105. 10 "	.. 3.00



LAWN BORDER SHEARS

For trimming under shrubbery, fences and other out of the way places.

No. 1062, 8½ in. blade, long handle, \$2.50.
Handles for Border Shears, \$1.00 per pair.



GRASS SHEARS

No.	P. P. Wt.	
3075. 6 inch, English	.....2 lbs.	\$1.00
3075. 7 " "	.....2 lbs.	1.25
119. 7½ " Saynor	.....2 lbs.	1.75
120. 7½ " Saynor	.....2 lbs.	1.50
360. 6 " English	.....2 lbs.	.75
361. 5½ " "	.....2 lbs.	.60
263. 5½ " Trowel Shank	2 lbs.	.50
268. 5½ " Extra Heavy	2 lbs.	.60
273. American	1 lb.	.35



WIRE AND TIN SHEARS

7½ inch, used for cut flower wire, etc.	\$0.75
8 inch, used for cut flower wire, etc.	.75
Parcel Post Weight, 1 lb.	
10 inch for heavy wire and tin	..... 1.10
8 inch for heavy wire and tin	..... .90
Parcel Post Weight, 2 lbs.	



CUT FLOWER GATHERER

Cuts the stem and holds it without crushing. The heel of the blades cuts thin wire.
No. 177 P. P. Wt.
6 inches long6 ozs. \$1.00

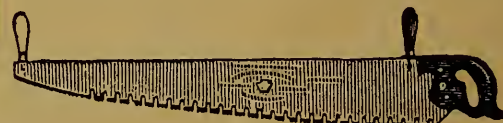
FLOWER SCISSORS

No. 1922. Cuts flower and holds the stem.
Nicked, \$1.00. P. P. Weight, 4 ozs.



GRAPE SCISSORS

	P. P. Wt.	
No. 6148. 6 inch	.....8 ozs.	\$1.00
No. 6148. 6½ "	.....8 ozs.	1.10
No. 6148. 7 "	.....8 ozs.	1.20
No. 6148. 8 "	.....8 ozs.	1.35



CROSS CUT LOG SAWS

Great American style, of best steel.
One Man, 3½ ft. blade\$2.00
Two Man, 5 ft. blade 2.50

CARPENTER SAWS

When ordering state if rip or cross cut is wanted.
Disston No. 8—26 inch blade\$1.85
Disston No. 8—28 inch blade 2.00



BUCK SAW

Each\$0.85

SAW-HORSE or WOOD BUCK

Each\$0.60



HALF MOON HOES

Best steel, solid sockets, which will not pull out.

No. HM3.	3-inch	.....	\$0.40
" HM4.	4 "	.....	.45
" HM5.	5 "	.....	.50
" HM6.	6 "	.....	.55
" HM7.	7 "	.....	.60
" HM8.	8 "	.....	.65

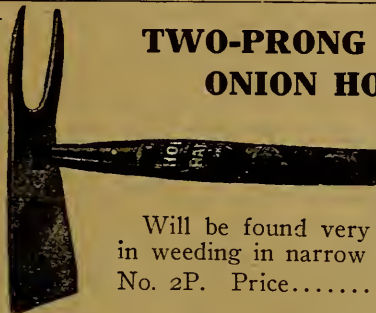


SQUARE HOES

No. G6.	6-inch, solid shank	.....	\$0.50
" G7.	7 " " "	.....	.55
" G8.	8 " " "	.....	.60

SQUARE CELERY HOES

No. 010,	10-in.	.....	\$0.80
No. K14½,	14-in.	.....	\$1.25



TWO-PRONG ONION HOE

Will be found very valuable in weeding in narrow rows.

No. 2P. Price.....\$0.45



WARREN HOES

Excellent tools for making drill preparatory to sowing of seed. The backs can be used for covering.

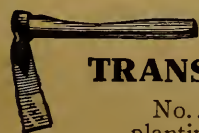
No. W7	.....	\$0.65
No. W8	.....	\$0.75



BATEMAN FIELD HOE

For digging up stubble, small stumps, etc.

No. 1.	5½-inch blade, each	.....	\$1.10
No. 2.	6½ " " "	.....	1.25
No. 3.	8 " " "	.....	1.40



TOMATO TRANSPLANTING HOE

No. 4I. Avoids kneeling when planting. Made of best steel. Price, 60c.



SCUFFLE HOES

Made of best English steel.

4-inch	.....	\$0.50
5-inch	.....	.55
6-inch	.....	.65
7-inch	.....	\$0.70
8-inch	.....	.75
10-inch	.....	1.00

Handles for Scuffle Hoes. 10c. each extra.



THE HILTON HOE

This is the best garden hoe for weeding ever offered. It works both ways and there is no lost motion, does very quick work. 8-inch blade.

Price\$0.70



BRUSH OR BRIAR HOOK

No. 43. Steel cutting blade, long handle.

Price\$0.65



STEEL HEDGE KNIVES

For cutting heavy brush, shrubbery, hedge, etc. Made of the finest steel with a slight hook on blade. Each, \$1.00.



ENGLISH BILL HOOKS

For trimming heavy shrubbery, trees, etc. P. P. Weight, 4 lbs.

Short handle	.....	\$1.25
Long handle	.....	2.00



GRAFTING TOOL

Best English steel for grafting trees, etc.

With Wood Handle\$0.75

All Steel60

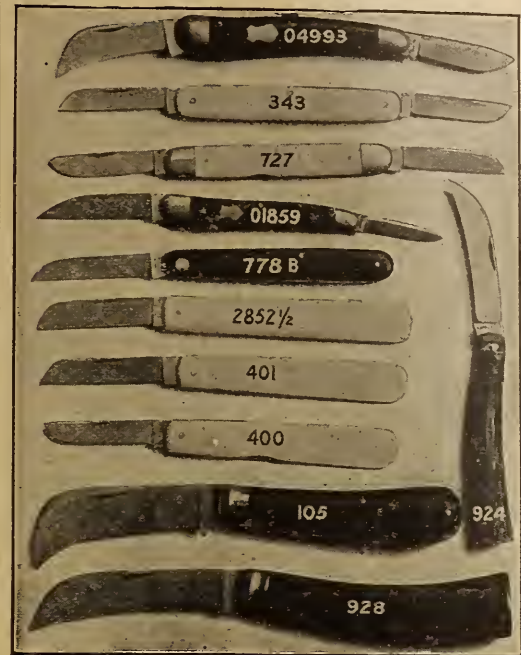
Parcel Post Weight, 1 lb.



GRAFTING WAX

¼ lb., 10c.; 15c. ½ lb.; 1 lb., 25c.; \$1.10 per 5 lbs.

Our Garden Tool Department we believe to be the most fully equipped of any seed store in the United States. Most every tool of real merit for garden work will be found here, and of the best quality.



HORTICULTURAL KNIVES

A good knife is an essential to every gardener and florist. Our stock consists of such styles that are practical and in demand. They are all of the best steel, every one is guaranteed to be perfect and give good satisfaction. (See key to illustrations in above column.)

No.	Blades	Style	Handle	Each
343	2	Saynor, brass lined, ivory..		\$2.00
727W	2	German, brass lined, white.		1.00
04993	2	German, steel lined, ebony..		1.00
400	1	Saynor, not lined, ivory....		1.75
401	1	Saynor, not lined, ivory....		1.75
2852½	1	German, not lined, bone....		1.00
928	1	English, steel lined, stag....		1.50
924	1	English, steel lined, stag....		1.15
778B	1	German, brass lined, ebony..		.75
105	1	Heavy German, steel lined, cocoa		.75
303	2	Saynor Pruning, stag.....		1.50
01859	2	Budding and Pruning.....		.85



EXTENSION LADDERS

These are made in the best manner possible, are complete, being equipped with the necessary rope and pulleys.

16 ft.	.....	\$4.80
18 ft.	.....	5.40
20 ft.	.....	6.00
22 ft.	.....	6.60
24 ft.	.....	7.20
26 ft.	.....	\$7.80
28 ft.	.....	8.40
30 ft.	.....	9.00
32 ft.	.....	9.60
34 ft.	.....	10.20
36 to 44 ft.	size at 28c. per foot.	

SINGLE PLANK LADDERS

Made of good hard wood, free from faulty knots; with perfect rounds.

10 ft.	.....	\$2.50
12 ft.	.....	3.00
14 ft.	.....	3.50
16 ft.	.....	\$4.00
18 ft.	.....	4.50
20 ft.	.....	5.00
Larger sizes up to 24 ft.	at 25c. ft.	

GARDEN REELS

Small, Single...\$0.50
Medium, Single... .75
Large, Single... 1.35
Large, Double... 2.00.



Single Garden Reel

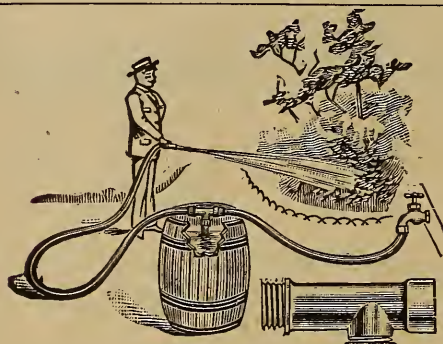
GARDEN LINE

Best Italian hemp.

P. P. Wt.

60 ft.....1 lb. \$0.50
90 ft.....1 lb. .75
120 ft.....1 lb. .95
300 ft.....3 lbs. 1.75
100 ft. braided. 1 lb. .75

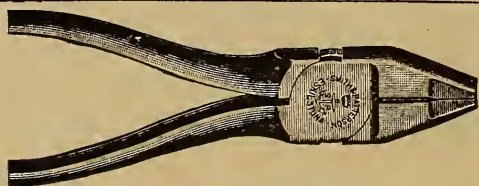
Plow Line Cotton, 45-ft. hanks, 40c.



LIQUID MANURE DISTRIBUTER

This can be attached to hose with which you are watering and, connected with a barrel of liquid manure, the suction of water will draw a quantity of manure with it. All brass.

Price, \$1.75 each. (Parcel Post Weight, 2 lbs., \$1.90.)



STEEL PLIERS

No. P. P. Wt.
1133 Side cutting 6 in.....1 lb. \$0.80
1133 " " 7 in.....1 lb. 1.00
1195 " " Button 8 in..1 lb. .60

No. 15 HUSKING PINS



Made entirely of metal and can be adjusted to fit any sized hand. 15c. each; per doz., \$1.60. P. P. Wt., 4 ozs. each.



CORN KNIFE

No. 42. Eureka, bent blade.....\$0.50
Parcel Post Weight, 2 lbs.



BROOMS

No. 230. Japanese Fibre (see cut)\$0.60
No. 8. Corn and Rattan, mixed .60
Golf Greens (birch)30 \$3.00
No. 7. Plain Corn, extra quality .45



Rattan Broom

ROAD BRUSHES (With Handles)

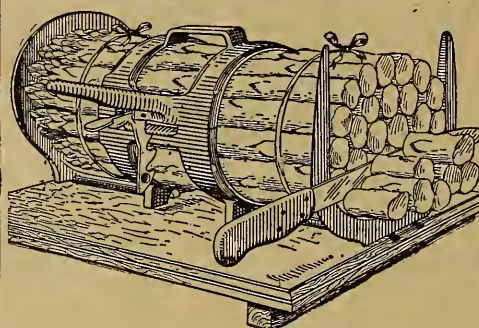
No. 271. Rattan Push, 14 in. (see cut) \$0.75
No. 0286. Bass or Cocoa Push, 14 in. .75

TREE OR BARK BRUSHES

For brushing down trees, for removing insects, borers, etc., made of steel.
Price, 8½-inch, 30c.

WHITEWASH BRUSH

No. 8. Very best quality made. 7 in., each, \$1.35. P. P. Wt.



ASPARAGUS BUNCHERS

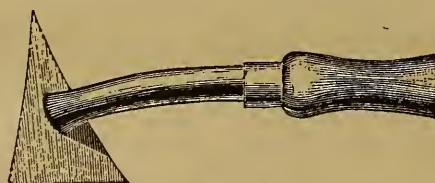
Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform.

Price, with Knife Guard, \$1.75.
Parcel Post Weight, 7 lbs.

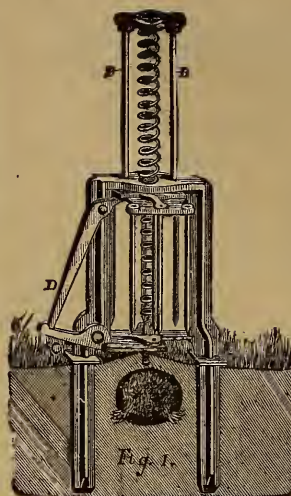


ASPARAGUS KNIVES

No. P. P. Wt.
45. Batemans (see cut).....1 lb. \$0.35
399. American. V-shaped blade 1 lb. .45



Tree Scraper



Olmsted



Rittenhouse

MOLE TRAPS

English, for hot beds\$0.40
Parcel Post Weight, 2 lbs.
Olmsted 1.50
Rittenhouse75
Reddick 1.00

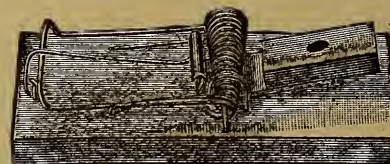
P. P. Wt. of the above, 3 lbs.
Complete Booklet on the Habits of the Mole mailed free, or included with each Mole Trap if asked for at time of ordering.



Reddick

HOW TO CATCH MOLES

Always press down the mound when setting the trap so that the lever which sets off the trap is level with the ground. Set the trap in the evening as moles usually stir about very early in the morning.



Out-O-Sight Rat Trap

OUT-O-SIGHT TRAPS

The most satisfactory mouse and rat trap. Set off at the least vibration.

P. P. Wt. Each Doz.
Mouse8 ozs. \$0.10 \$1.00
Rat1 lb. .25 2.50

TREE SCRAPERS

For removing loose bark from trees prior to spraying. Steel blade may be detached and sharpened. No. 5, short handled, 60c., Parcel Post Weight, 1 lb. Long handled, \$1.00. Not mailable.



SPADING FORK

Strapped shanks, short or D-wood handle.
Made of best quality steel.

No. OHW. Men's, 4 tine\$1.00
No. O5HW. Men's, 5 tine 1.15
No. B4D. Boys' or Ladies', 4 tine.... .60



MANURE FORKS Strapped Shanks

No.	Price
04W—4 tine, light, short handle....	\$0.85
163 —4 tine, heavy, short handle....	1.35
05W—5 tine, medium, short handle..	1.25
06W—6 tine, medium, short handle..	1.35
044½—4 tine, long handle.....	.90
054½—5 tine, long handle.....	1.10



STEEL HAY FORKS

Equipped with strapped shanks.

2 Tine		3 Tine	
No. 025. 5-ft. handles.	\$0.80	No. 035.	\$0.90
No. 026. 6-ft. handles.	.90	No. 036.	1.00
No. 027. 7-ft. handles.	1.00	No. 037.	1.10

HICKORY STABLE FORKS

Excellent to use for tossing straw or litter in stables. No danger of injuring animals by sticking. Prices: 3 tine, long handles, 85c.; 4 tine, long handles, \$1.00.



ENGLISH DIGGING FORK No. EB4

Though made in America, it is made exactly after the pattern of Garden Forks such as are made and used in England. The prongs are solid steel and square instead of rounded edges, which adapts it especially for digging in heavy soil, in which it works with ease. Every gardener should add one of these to his collection of tools, as we know it will give him splendid satisfaction. \$1.75 each.



SHOVELS

We handle only the very best makes of steel shovels. Every one is guaranteed to give entire satisfaction.

Short Handle

Ames, round point	\$1.40
Ames, square point	1.40
Maynard, solid socket, square point...	1.50
Maynard, solid socket, round point...	1.50
Imperial, round point	1.00
Imperial, square point	1.00



IMPLEMENT HANDLES

	Each
Axe	\$0.20
Spade, plain .....	.35
Fork Spading, plain .....	.35
“ Manure “ short.....	.35
“ “ “ long.....	.25
“ Hay “ .....	.20
“ Boys’ “ .....	.25
Shovel, short “ .....	.35
“ long “ .....	.25
Spade, short “ .....	.35
“ long “ .....	.25
Hoe “ .....	.10
Rake, Garden “ .....	.10
“ Lawn “ .....	.10
Pick or Mattock “ .....	.25
12 foot Poles .....	.60
14 “ “ .....	.85
16 “ “	1.25



MANURE DRAGS

For manure, potatoes, etc. Flat tines. No. 4BHF. 4 tine, 60c. No. 6BOH. 6 tine, 80c.



SHOVELS Long Handle

Ames, round point	\$1.40
Imperial, round point	1.10
Imperial, square point	1.10
Featherweight, 4¼ lbs., round point..	1.25
Maynard	1.50

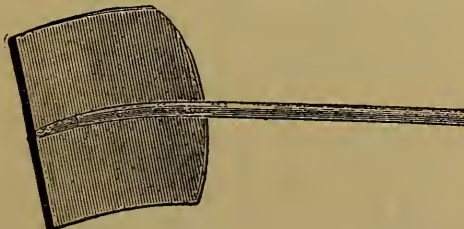


STEEL SCOOP SHOVELS

All equipped with strapped shanks, wood D or short handles.

No. 2, 10 inch mouth	\$0.90
“ 3, 11 “ “	1.00
“ 4, 11½ “ “	1.10
“ 5, 12 “ “	1.15
“ 6, 13 “ “	1.20

SNOW SHOVELS

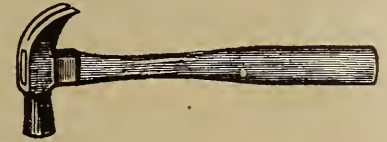


Adams, wood (see cut), wood-D handles	\$0.60
Phillips, wood, long handle .....	.50



REDDICKS POTATO SCOOP

Made of heavy steel wire.....\$1.75



STEEL HAMMERS Price, 65c. ea.



STEEL SPADES

Ames	\$1.40
Maynard	1.50
Imperial	1.00
Long Handle	1.00
Nursery	1.75
Drain	1.35
Boys’ .....	.85



GARDEN SETS

For ladies and children, in fact they are suitable for the country gentleman, consisting of 1 hoe, 1 rake and 1 spade. No. 3PF. Large size, per set, \$1.00; small size, per set, 60c.



ENGLISH TURF IRON No. 275

For lifting sod and turf. Best steel; will last a lifetime. \$4.00 each.

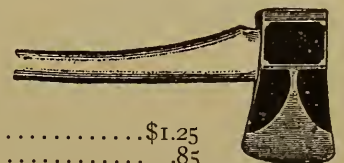


AMERICAN TURF OR SOD LIFTER

A convenient device for lifting sod; steel blade, with an 18-inch steel shank and wood D handle. Price, \$1.25 each.

KELLY PERFECT AXES

Medium	\$1.25
Boy's .....	.85



HATCHETS

F. R. Plumb, heavy...\$0.75

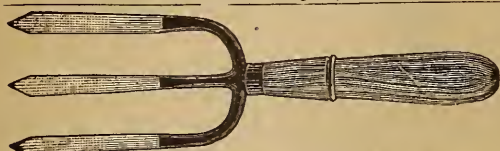


LANG'S HAND WEEDER

HANDIEST
TOOL



ON EARTH.
Lang's Hand Weeder, 25 Cents
Parcel Post Weight, 1 lb.



No. 6 Eureka Weeding Fork, 25 Cents
Parcel Post Weight, 2 lbs.

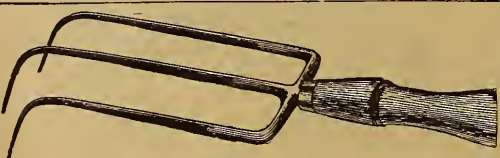
No. 1 ENGLISH WEEDING FORK

Very similar to the Eureka, except that it is heavier and of better quality. If you want a weeding fork that will last a lifetime, buy this one. Price, 85c.

Parcel Post Weight, 2 lbs.



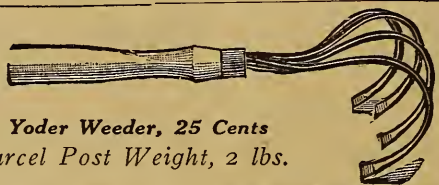
No. 300 Excelsior Weeding Fork, 10 Cents
Parcel Post Weight, 1 lb.



No. E Eureka Weeder, 25 Cents
Parcel Post Weight, 2 lbs.



Excelsior Weeder, 10 Cents
Parcel Post Weight, 1 lb.



Yoder Weeder, 25 Cents
Parcel Post Weight, 2 lbs.



Hazeltine's Hand Weeder, 25 Cents
Parcel Post Weight, 1 lb.



No. 1792 English Steel Weeder, 50 Cents
Parcel Post Weight, 3 lbs.

MEHLER HANDY HOE

A hoe, rake and edger, all in one; has been thoroughly tried and found successful. \$1.00 each. Not mailable.



No. 1 No. 2 No. 3 No. 4

WEEDERS, Etc.

No. 1 Cleveland	.....	\$0.60
No. 2 Yoder Long Handled	.....	.75
No. 3 Champion	.....	.50
No. 4 Heavy Dock Lifter	.....	2.25

IDEAL DANDELION EXTRACTOR

This simple device is the best thing of its kind ever used for taking weeds out of the lawn. It will be seen that it is not necessary to get down on hands and knees to operate it. The cutting blade of the best steel, equipped with a convenient handle, so that either man, woman or child can use it; 35c. each.



ALCA GARDEN TOOL

This implement combines a trowel, a weeder and a dibble or planter, all in one. Interchangeable instantly. It is thoroughly made and represents unusual value. Just the thing for a city garden. 35c. each.
Parcel Post Weight, 3 lbs.



No. 211 JOHNSON STEEL TROWELS

These are made of one piece steel blade and shank, equal to the imported trowels.

P. P. Weight		P. P. Weight	
5 in...1 lb.	\$0.40	7 in...1 lb.	\$0.60
6 in...1 lb.	.50	8 in...1 lb.	.70



D. S. T. STEEL SHANK TROWEL

These are somewhat long in blade and handle, making a very practical tool. 6-in. blade. Will last a lifetime. 65c. each.

Parcel Post Weight, 1½ lbs.



No. 217 CLEVES' ANGLE TROWEL

For getting dandelion, plantain and other weeds out of the lawn and transplanting.

	Weight	Each
5 inch.....	1 lb.	\$0.15
6 inch.....	1 lb.	.20
7 inch.....	1 lb.	.25



No. 1795 LONG HANDLED ENGLISH TROWEL

Just the thing that prevents kinks in the back. 40c. each. Parcel Post Weight, 2 lbs.

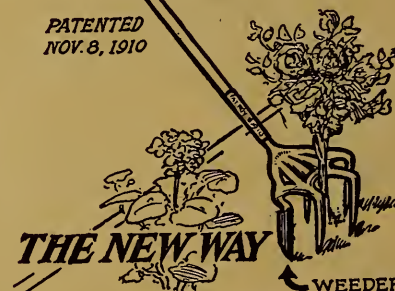
MISCELLANEOUS TROWELS

	Weight	Each
No. 213—5 in.	½ lb.	\$0.10
No. 213—6 in.	½ lb.	.12
No. 5—6 in., heavy steel....	1 lb.	.25

MEHLER GARDENER

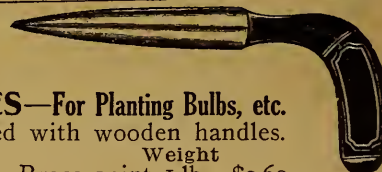
An entirely distinct tool, avoids bending the back, works closer to the plant than any other device. No hoe is needed where this is used, just the thing for working among flower and vegetable plants. 75c. each. Not mailable.

PATENTED
NOV. 8, 1910



THE NEW WAY

WEEDER BLADE



DIBBLES—For Planting Bulbs, etc.

Equipped with wooden handles.

	Weight	
No. 2180. Brass point.	1 lb.	\$0.60
No. 218. Iron point.	1 lb.	.40



STEEL GARDEN RAKES

Made of best cast steel, with long teeth for penetrating the ground.

No.	Tooth	No.	Tooth
6	6 .....\$0.45	12	12 .....\$0.55
8	8 ..... .45	14	14 ..... .60
10	10 ..... .50	16	16 ..... .65



STEEL GRAVEL RAKES

These rakes are used for road-raking and for paths. Having very short teeth they do not gather up stones or gravel.

No.	Tooth	No.	Tooth
G 12	12 .....\$0.55	G 16	16 .....\$0.65
G 14	14 ..... .60	G 18	18 ..... .70
No. 20	20 tooth.....\$0.80		



STEEL BOW RAKES

Preferred by many to the regular garden rake. The teeth are slightly bent toward the operator.

No.	Tooth	No.	Tooth
B 11	11 .....\$0.60	B 13	13 .....\$0.65
B 15	15 tooth.....\$0.70		

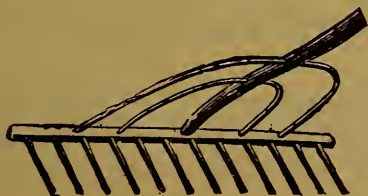


WIRE LAWN OR GRASS RAKE

Made of heavy tinned steel wire. These are excellent for lawn or walk work. The rake is reversible. Can be used on both sides.

No. 2046—46 teeth, for putting greens, 75c. each.

No.	Tooth	No.	Tooth
124 R	24 ...\$0.50	36 LR	36 ..\$0.75



AMES WOODEN RAKES

No.	
30X.	14 tooth, wood bows .....\$0.55
36X.	24 tooth, wood bows. For lawns. .70
37X.	24 tooth, steel bows. For lawns. .80
No. 30X.	Ames 14 tooth hard wood bow rake for Hay and field use....\$0.55
	20 tooth, Lawn, wire braced..... .35



OLE OLSEN LAWN RAKES

This rake head is slightly curved from the centre to each end which does not allow any material that has been caught by the teeth to slip around the edges.

26 tooth, hickory wood. Price, 50c.



DAISY RAKE No. 9

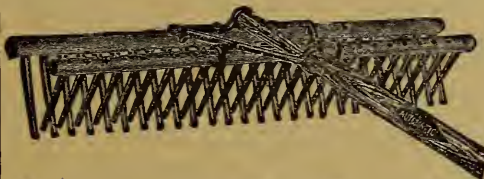
For removing dandelion and other obnoxious growth from lawns. English steel. 16 tooth ...\$3.00 | 20 tooth ...\$3.50
Roberts Daisy Rake. 32 teeth, 16 inches, \$1.50 each.



LAWN KING RAKES No. 210

Made of best hard wood, thoroughly braced with iron. The most excellent wooden lawn rake in the market.

22 tooth ....\$0.30	38 tooth ....\$0.75
26 tooth .... .50	50 tooth 1.00



AUTO. LAWN RAKE No. 205

This rake is fitted with an unloading head. While raking this head lies forward, and upon pressing the rake forward the unloading head moves backward, cleaning out the raking head entirely.

22 tooth ....\$0.50	38 tooth ....\$0.90
26 tooth .... .60	50 tooth 1.35



MARKING RAKES

These are for marking out garden rows; adjustable brass teeth, which are set for any width row desired up to 4½ ft. Price, \$5.50. (Extra teeth, 50c. each.)

HOE AND RAKE (COMBINED)

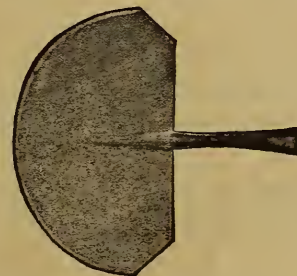
An excellent tool for ladies, combining simplicity and utility. Made of the very best steel, which will outlast several cheaper tools of the same class.

No. 4P.	4-prong ....\$0.50
No. 6P.	6 "60



LAWN SHOVEL AND EDGER

The most perfect tool for cleaning out and edging up the sides of cement walks. This is the only tool of its kind found so far to be practical. It is made of the best steel, is very sharp and can be resharpened readily when dull. Price, 85c. each.



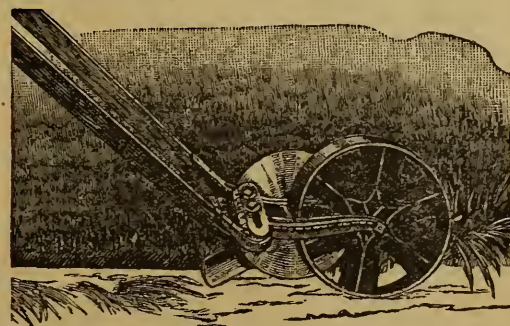
EDGING KNIVES (with handles)

For trimming edges of paths, etc.

Mehler Edging Tool	\$1.00
No. 040. American .....	.60
English, 8 inch	1.50
English, 9 inch	1.75

MEHLER'S HOE

A very useful tool, indeed. Hoe, cultivator and soil pulverizer combined. Just the thing for celery culture. \$1.00.

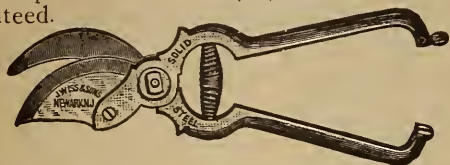


PLANET JR. GRASS EDGER

The Planet Jr. Grass Edger will edge either straight or curved work, paths, drives, open borders or flower beds, doing the work well and rapidly. Price, \$6.00.

PRUNING SHEARS, Etc.

Our pruning shears are procured from the most reliable makers in America and Europe and all but 1401½ are fully guaranteed.

**Wiss Pruning Shears**

No.	Parcel Post Weight	Each
109 Wiss, 8 in.....	2 lbs.	\$2.00
190 Henckel, 7½ in.....	2 lbs.	1.25
200 " 8½ in.....	2 lbs.	1.50
210 " 9½ in.....	2 lbs.	1.75

The Henckel patterns are equipped with a ratchet nut which takes up all wear.



No.	Parcel Post Weight	Each
88 Hessenbruch, 8 in.....	2 lbs.	\$1.10
1537 German, 8 in.....	2 lbs.	.65
1401½ German, 6½ in.....	2 lbs.	.40
23 Nickeled, 4½ in.....	1 lb.	.80
23 " 5½ in.....	1½ lbs.	.90
23 " 6½ in.....	1½ lbs.	1.10
Perfection, 8-in.....		2.00
Spiral Springs for any of the above Pruning Shears. 10c. each; per doz., \$1.10.		
P. P. Weight, per doz., ½ lb.		

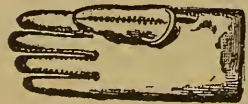
**FRENCH PRUNING SHEARS**

These have a distinct, very easy working, spring and are desirable for one whose hand is liable to fatigue when pruning.

No.	Weight	Each
No. 1542. 7 inch.....	2 lbs.	\$1.25
No. 1542. 8½ inch.....	2 lbs.	1.50
Springs for French Pruning Shear... .25		

**No. 23 LEVIN PRUNER**

The handle of this shear affords a great deal of leverage, which makes very easy cutting possible. Price, 75c. Weight, 2 lbs.

**LEATHER PRUNING GLOVES**

	Parcel Post Weight	Pair
Buckskin	1 lb.	\$2.00
Buckskin, with gauntlets.....	1 lb.	2.50

FLY NUTS (Postage free)

For Hedge Shears, 30c. each.

The Fly Nut feature of a hedge shear enables the wear to be taken up instantly by merely tightening the same.

**TREE PRUNERS**

Disston's Little Giant Pole Pruner *Disston's Little Giant Pruner and Saw*

Disston's Little Giant	\$1.10
Parcel Post Weight, 3½ lbs.	
Disston's Little Giant. With saw attachment	1.50
Parcel Post Weight, 4 lbs.	
The above prices are for Pruner without rope or pole.	

**TELEGRAPH TREE PRUNER**

This has a removable blade which can be renewed when worn out for 25c. Price, plain as in cut, \$1.00.

Parcel Post Wt., 2 lbs.

HESSENBRUCH TREE PRUNER

No.	Price
5340	\$1.00
1820	2.00
1806	1.75
1805 .....	.60

**WATERS TREE PRUNERS**

With removable cutting blade and pole complete.

4 feet.....	\$0.75
6 " .....	.85
8 "	1.00
10 "	1.15
12 "	1.25
14 "	1.50

Extra Blades for Waters Pruners, 25c. each.

None of the above Tree Pruners except the Waters are equipped with poles or rope.

POLES for Tree Pruners.	
12 feet long, 1¼ inches diameter.....	\$0.45
14 " 1½ " " .....	.80
16 " 1½ " "	1.00

Waters Pruners are not mailable.

BASTIAN'S TREE PRUNER

The most powerful device of its kind ever invented. With the greatest ease it will cut any limb that fits in its jaws, which are about 1½ inches wide. By reason of its design, the leverage does not in any way bend the pole, as it is a direct down stroke.

	Each	Each
8 ft.....	\$1.50	12 ft.....\$2.00
10 ft.....	1.75	14 ft.....2.25
Extra blades for cutter, 15c. each.		

SEARIGHT TREE PRUNER**No. 3** (not mailable)

Equipped with forged steel hook and blade. The lever handle is connected to the blade by a rod and the spring always throws the cutting part open to receive a limb. This is the very best tree pruner made, and is actually worth double the price asked for it.

8 ft.....	\$1.40	12 ft.....	\$1.75
10 ft.....	1.60	14 ft.....	2.00

No. 4 COMPOUND LEVER TREE PRUNER WITH JOINTED POLE

The compound lever construction gives great power. Limbs up to 1¼ inches in diameter may be cut off with ease. Blades forged from high grade crucible steel. Can be used as a 4, 8 or 12 foot pole by using the top section, handle section and one intermediate section. Price, complete, \$2.00.

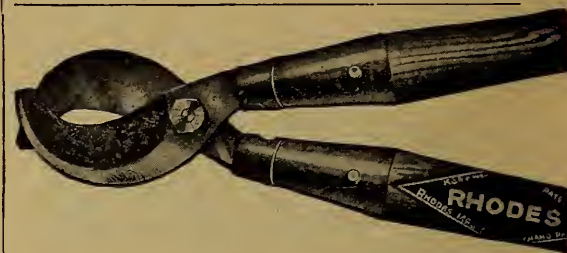
LOPPING SHEARS

These are used in trimming trees and for cutting heavy hedge that the regular hedge shear will not cut. Each

Rockdale Style	\$1.00
Parcel Post Weight, 4 lbs.	

Searight Style. Has a tremendous leverage, which means easy cutting; made of the finest American steel.. 2.00

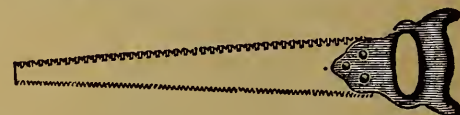
No. 109. English, 4-in. cut (not mailable)	3.50
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**Rhodes Lopper****RHODES DOUBLE CUT LOPPING SHEAR**

For trimming trees, bushes, heavy shrubbery, etc.

Makes an absolutely clean, perfect cut, the blades are concaved at the cutting edge, producing with the handles an enormous leverage. They are the easiest operating Lopping Shears ever made or sold. 24-inch and 28-inch handles. State which are wanted when ordering. Price, \$2.50.

Parcel Post Weight, 5 lbs.

DISSTON PRUNING SAWS

	Parcel Post Weight	Each
18 inch. Double edge.....	2 lbs.	\$0.85
20 " "	2 lbs.	1.15
16 " Single edge.....	2 lbs.	.70
18 " "	2 lbs.	.80
20 " "	2 lbs.	1.00
22 " "	2 lbs.	1.25

CROSS CUT LUMBERING SAWS

	Each
One Man. 3½ ft. (not mailable)....	\$2.00
Two Man. 5 ft. (not mailable).....	2.50

All Prices Subject to Change

(hc)

No. 8 POSTHOLE DIGGER

(See Cut)

This bores a hole 3½ ft. deep and can be adjusted in diameter from 8 to 14 inches. It can be emptied instantly, it is made of the finest steel and a man with one of these can do 3 times as much work as with an ordinary digger. \$3.50

No. 15 Eureka Posthole Diggers, \$1.
Post Hole Spades.

All steel with either point or tamper end, \$1.75

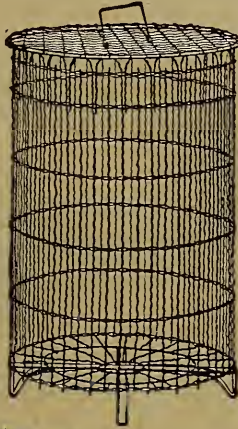
RUBBISH CONSUMERS

Made of galvanized wire, an indispensable arrangement for burning rubbish, paper, leaves, etc., without endangering property.

Light Wire

Diam	High	Price
A, 12 in. x 18 in.		\$1.25
B, 15 in. x 22 in.		1.50
C, 18 in. x 26 in.		1.75
D, 21 in. x 31 in.		2.50

Extra Heavy Construction	Price
E, 20 in. x 30 in.	\$8.00
F, 24 in. x 36 in.	12.00



PICKS (Price includes Handle)

All steel. Double point, 80c.; axe point, 90c.



MATTOCKS (Price includes Handle)

Axe pointed (see cut)	\$1.00
Pick pointed	1.00
Half Mattocks or Grub Hoes	.85



COE MONKEY WRENCHES

For machinery. Made of first quality hard steel. 8-inch, 60c.; 10-inch steel, 75c.



CHAMPION SCREW DRIVERS

No.	Blade	P. P. Wt.	Price
No. 23	4-inch blade	1 lb.	\$0.25
No. 23	6-inch blade	1 lb.	.35
No. 23	8-inch blade	1 lb.	.45

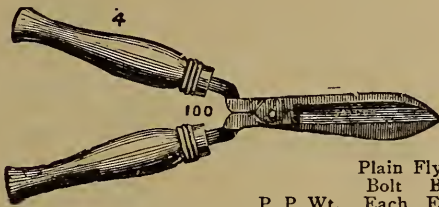


ROAD SCOOPS

For dragging soil from one place to the other, grading, etc.

1L.	7-ft.	\$6.50
2L.	5-ft.	6.00
3L.	3-ft.	5.75

ENGLISH HEDGE SHEARS



No.	Length	Ladies'	P. P. Wt.	Plain Bolt	Fly Nut Bolt
107	5½ inch	4 lbs.	\$1.00		
101	8	4 lbs.	1.50	\$2.00	
101	9	5 lbs.	1.75	2.25	
101	10	5 lbs.	2.00	2.50	
101	12	6 lbs.	2.50		

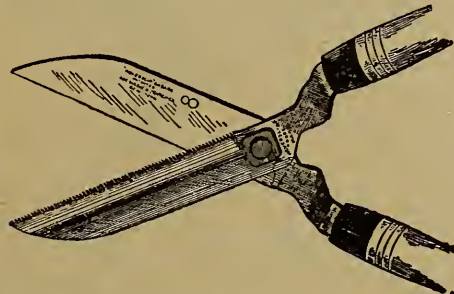
Handles for Hedge Shears, 50c. per pair.

P. P. Weight on Handles, 2 lbs. per pair.

SAYNOR HEDGE SHEARS

For very heavy hedges. These are all equipped with a fly nut.

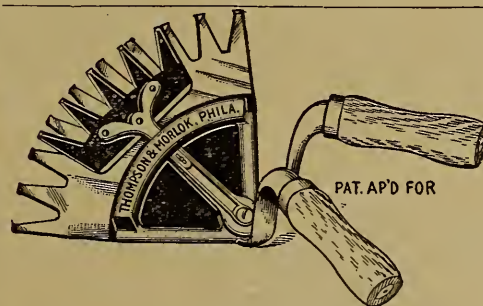
No.	Length	P. P. Wt.	Price
101	9 inch	4½ lbs.	\$2.75
101	10 inch	5 lbs.	3.00



HEDGE SHEARS (Neverslip)

As may be seen by the illustration these shears have a saw edge on one blade which prevents them from slipping when cutting, made of the best quality English steel.

No.	Length	P. P. Wt.	Price
8 inch		4 lbs.	\$1.80
9 inch		5 lbs.	2.25
10 inch		5 lbs.	2.50



Unique Hedge Trimmer

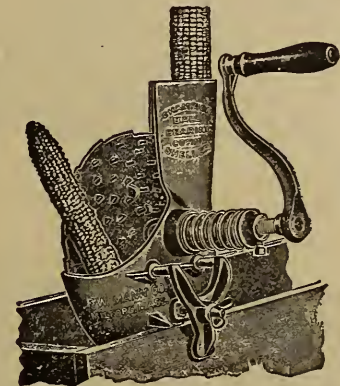
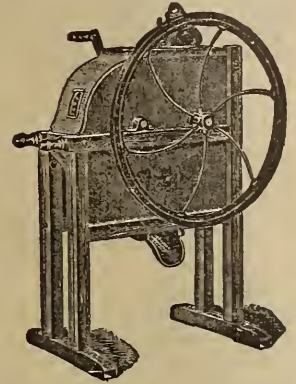
UNIQUE HEDGE TRIMMER

A practical tool for trimming the summer growth of hedge. It works like a charm, and leaves the hedge in better shape than you could with any other shear and does the work in ¼ the time. Equipped with a special blade for cutting heavy growth also. You need no line to guide you when cutting a hedge with the Unique Trimmer, the sides and any special shaped hedge can be cut as readily as straight away work. Guaranteed satisfactory; cuts 16-inch swath. Price, \$5.00. Parcel Post Weight, 5 lbs.

No. 3 PENNA. CORN SHELLER

Will be found useful on every farm and private estate. Separates the corn from the cob, throwing the cob to one side and allowing the corn to pass out at another.

Price, \$7.00.



MANN'S CORN SHELLER

Excellent for small poultry farms, etc. Ball-bearing, suitable for fastening to a bench, box, etc. Price, \$2.00.

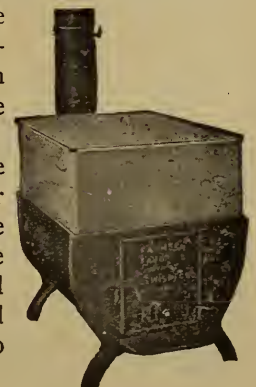
BLACK HAWK CORN SHELLER

For shelling small quantities of corn. \$2.00 each.

FARMERS' FEED COOKER

Poultry must have warm food if you expect them to lay in winter when eggs are high.

Prices are for the Cooker complete, for burning wood, one length of 6-in. stove pipe, and damper and one 6-in. elbow. Coal grate and lining \$3.50 additional.



No.	Cap. Gals.	Size Boiler	Length Fire Box	F. O. B. Factory	F. O. B. Phila.
1	25	22x22x12	24 in.	\$10.00	\$11.00
2	30	22x24x13½	24 in.	10.50	11.50
3	40	22x30x14	30 in.	12.00	13.00
4	50	22x36x15	36 in.	13.00	14.00
5	75	22x48x17	48 in.	15.00	16.00
6	100	22x60x17	60 in.	17.00	18.00

All Prices Subject to Market Changes

(ha)

No. 68 SIAMESE HOSE CONNECTION



This permits one lead of hose to be diverted in two directions. Additional three-way connections can be used according to the water pressure. It is specially adapted for lawn sprinkling. Price, 75c. each.

Parcel Post Weight, 1 lb.

HOSE REDUCERS



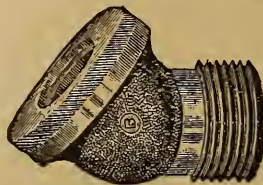
For reducing 1-in. pipe to fit regular 3/4-in. hose. All brass.

Each30c.

Parcel Post Weight, 1 1/2 lbs.

HYDRANT ATTACHMENTS

To be used for attaching hose to smooth faucets. Royle Style. 35c.



Parcel Post Weight, 1/2 lb.

Boyd Style.

Price\$0.25

Parcel Post Weight, 1/2 lb.



PLAIN STREAM NOZZLES

For 3/4-inch hose.

	P. P. Wt.	Price
5 inch	4 ozs.	\$0.30
6 inch	6 ozs.	.35
7 inch	8 ozs.	.40

BOSTON SPRAY NOZZLE



These render the same service as does the rose of a watering can. They are screwed on the end of the hose like any other nozzle. Coarse and fine, for 3/4-inch hose.

P. P. Wt.	Price
Light Copper 1/2 lb.	\$0.60
Heavy Brass 1 lb.	1.00

BOSS HOSE NOZZLE

Price, 50c. each.
For 3/4-inch hose.
P. P. Wt., 1/2 lb.

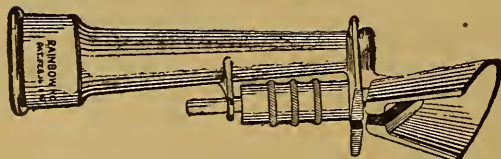


GEM HOSE NOZZLE



3/4-inch hose. Can be regulated to give three different streams. Price, 40c.

Parcel Post Weight, 1/2 lb.



GREENHOUSE NOZZLE

An all brass device with an adjustable arrangement, which regulates in a perfect manner the character of the stream this nozzle will throw. Florists consider it one of the very best on the market to-day. For 3/4-inch hose. Parcel Post Weight, 1 lb. Price, \$1.75.

Note.—If goods are desired by Parcel Post allow for postage on weights stated.



THE BINKS NOZZLE

Made of aluminum, with brass face, equipped with interchangeable sprays, coarse and fine. It makes watering possible without wetting the hands. Positively the best and most indestructible nozzle made. \$2.50 each; worth twice the price. Parcel Post Weight, 1 1/4 lbs.

WATER CANS (Wotherspoon's)

Extra heavy with long spout.
Will last for years.



Each Wotherspoon can comes equipped with two roses, one coarse and one fine.

	2 quart (equipped with one rose only)	Round	Oval
		\$1.15	
Parcel Post Wt., 2 1/2 lbs.			
4 "	1.60		
6 "	1.85	\$2.10	
8 "	2.00	2.35	
10 "	2.25	2.60	
12 "	2.60	2.85	
16 "	3.15	3.50	
12 " Manure Watering Can	2.75		
4 " Fern or Low Watering Can	1.50		

The above Watering Pots (except as noted) cannot be mailed.

EXTRA ROSES OR SPRAYS

For Wotherspoon Watering Can, either coarse or fine, 35c. each.
Parcel Post Weight, 8 ozs.

ENGLISH WATERING CANS

Made of very heavy tin; carefully enamelled inside and out; finished light green. English Watering Pots are not mailable.

No. 2, 4 qt....\$2.00	No. 3, 6 qt...\$2.25
No. 4, 8 qt.... 2.50	No. 5, 10 qt... 2.75

GALVANIZED WATER CANS

Fine for cemetery purposes and other places where a can is desired to last several seasons. (Not mailable.)

4 quart.....\$0.35	12 quart.....\$0.70
6 "45	16 " 1.00
8 "55	20 " 1.25
10 "60	

LIGHT TIN WATER CANS

1 quart, green.....\$0.25	
Parcel Post Weight, 1 lb.	
2 quart, green..... .30	
Parcel Post Weight, 1 1/4 lbs.	
4 quart, green..... .35	
Parcel Post Weight, 1 1/2 lbs.	

RUBBER APRONS

For protecting the clothing while watering or doing any work in the garden where your clothes could become soiled. Parcel Post Weight, 2 lbs. Price, \$1.75.



LAWN SPRINKLERS

	Weight	Price
Enterprise. No. 1. See cut..	14 lbs.	\$3.75
Enterprise. No. 2. 8 in.....	14 lbs.	3.00
Ring. Large, see cut.....	1 lb.	.75
Ring or Fountain. Small.....	3/4 lb.	.50
Hotchkiss. No. 5. 10 1/2 in. high..	4 lbs.	1.00
Pluvius. 11 in. high.....	3 3/4 lbs.	1.25

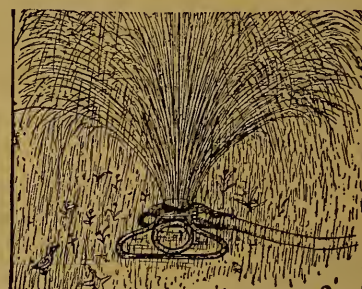


	Weight	Price
Elgin. 3 1/2 in. high	3 lbs.	\$0.75
Universal. No. 65. 10 in. high..	4 1/4 lbs	1.50
Lawn Twin. Aluminum	1/2 lb.	.50
Eureka. No. 55. 10 in. high..	3 lbs.	1.25
Aetna. 24 in. high.....	6 1/4 lbs.	1.75
Peck. 4 arm. 40 in. high (not mailable)		3.25



Mayflower Sprinkler

	Weight	Price
Peck. 8 arm. 40 in. high (not mailable)		\$3.75
Mayflower. 9 1/2 in. high....	3 1/2 lbs.	1.00
Preston. 5 1/2 in. high.....	3 1/2 lbs.	1.25
Waterwitch. 8 3/4 in. high.....	1 lb.	.50
Dayton Rotary		6.00
C. B. G. For golf links.....	3/4 lb.	.25
Pennsylvania Rainmaker		18.00



The Elgin Sprinkler

Add postage, if Lawn Sprinklers are desired by mail, where weight is given.

HOSE

Our stock of this is unusually reliable. Our very large sales enable us to deal direct with the factory, where we obtain lowest prices, which we in turn give our customers the benefit of. Sections of hose in lengths of 25 feet and upward coupled free; smaller sections, couplings attached, 15c. per pair.

RUBBER HOSE

Special attention is called to "Empire Red" Hose, a new brand which, having been thoroughly tried out, has made good.

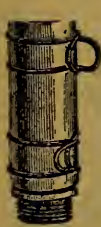
	Weight per foot	Per foot
*Michell's Special, 1/2 in...4 ozs.	\$0.12	
*Michell's Special, 3/4 in...5 ozs.	.15	
*Electric, 3/4 in...5 ozs.	.18 1/4	
*Electric, 5/8 in...5 ozs.	.17	
*Electric, 1/2 in...4 ozs.	.16 1/2	
*Revero, 3/4 in...5 ozs.	.18	
*Revero, 5/8 in...5 ozs.	.16 1/2	
*Revero, 1/2 in...4 ozs.	.16	
*Empire Red (Corrugated), 3/4 in.	.17	
Bull Dog, 3/4 in., 7-ply...6 ozs.	.16 1/2	
Spray Pump Hose, 3/8 in...3 ozs.	.12	

P. S.—Brands marked * come in reels of 500 feet and sections in any length to that number of feet may be had.

25- and 50-foot sections of hose coupled free. Smaller sections coupled at the rate of 15c. per pair for couplings.

Hose Washers. For inside and outside of couplings. 8c. doz.; 1/4 lb., 30c.

Hose Protectors. For putting on corner post to prevent hose rubbing and chafing. 30c. each; doz., \$3.00.



Caldwell Band
as applied to Hose

**HOSE BANDS**

For fastening couplings and menders.

No.	CALDWELL'S	Doz.	100
8—For 3-ply hose.....	\$0.18	\$1.00	
6—For 4-ply hose.....	.18	1.00	
P. Post Weight, doz., 1/4 lb.; 100, 2 1/4 lbs.			

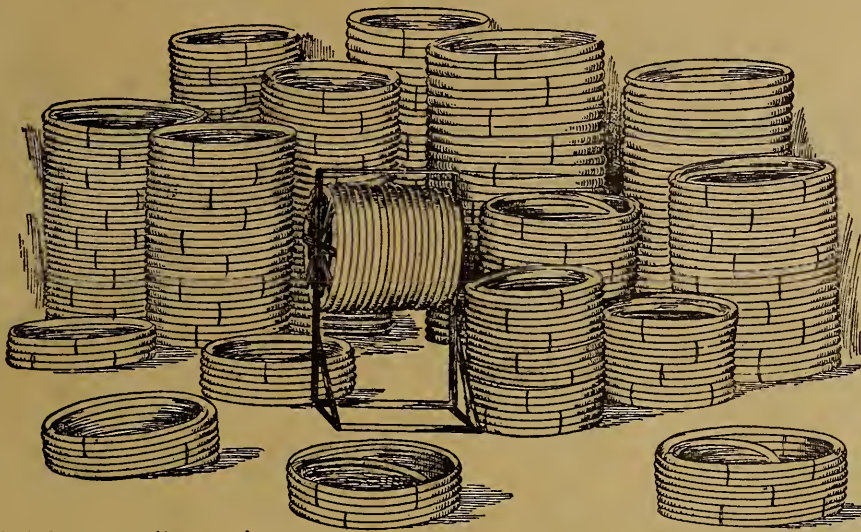
HUDSON'S

See illustration in Hudson Hose Mender Outfit cut opposite.

	Doz.	100
3/4-inch	\$0.18	\$1.00
1-inch .....	.20	1.25
P. Post Weight, doz., 1/4 lb.; 100, 2 1/4 lbs.		

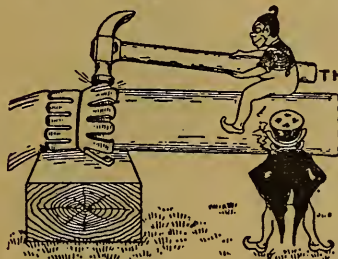
SURE GRIP

3/4-inch, 5c. each; per doz., 50c.
P. Post Weight, doz., 1 lb.; 100, 9 1/2 lbs.

**HOSE MENDERS**

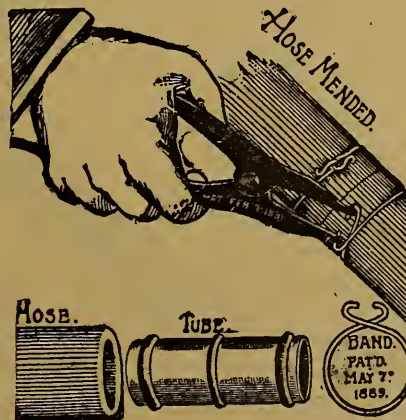
Cooper Hose Mender

	P. P. Weight	Doz.	Each	Doz.
Cooper's, 3/4"	1 1/4 lbs.	\$0.10	\$1.00	
" 5/8"	1 lb.	.10	1.00	
" 1/2"	1 lb.	.10	1.00	
Jones', 3/4" (iron)	2 1/4 lbs.	.05	.50	
Hudson's, 3/4" (brass) 1/2 lb.		.04	.42	
" 1/2" (brass) 6 ozs.		.04	.42	

THE PERFECT HOSE MENDER

Parcel Post Weight, per doz., 1 3/4 lbs.

Made entirely of brass, with swivel motion — no band required. For 3/4 inch hose, 10c. each; doz. \$1.00.

**HOSE MENDING OUTFIT**

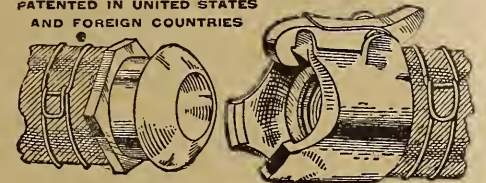
(For 3/4-inch Hose)

Furnishes a complete outfit, consisting of 6 menders or connections, 18 bands or fasteners, and a pair of pliers for fastening bands. Price, 65c. each. P. Post Wt., 1 lb.

**BRASS HOSE COUPLINGS**

	P. P. Weight	Doz.	Pair	Doz.
1/2 inch	3 1/4 lbs.	\$0.15	\$1.60	
3/4 "	4 lbs.	.15	1.60	
1 "	5 lbs.	.35	4.00	

PATENTED IN UNITED STATES
AND FOREIGN COUNTRIES



No. 2 Snap Coupling

No. 1 Snap Coupling

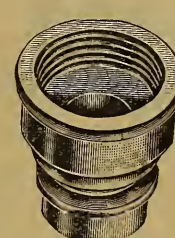
SNAP HOSE COUPLING

Snap Couplings are entirely new and novel. They couple hose instantly, work on a spring, and are water-tight. 25c. pair; doz. pairs, \$2.75. (Washers, 20c. doz.)

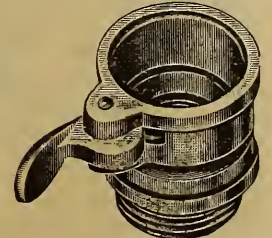
Parcel Post Weight, per doz., 2 1/2 lbs.

SNAP COUPLING PARTS

No. 2—Male. 8c. each; per doz., 85c.
Parcel Post Weight, per doz., 1 1/4 lbs.
No. 1—Female. 17c. each; per doz., \$1.90.
Parcel Post Weight, per doz., 1 1/4 lbs.



No. 3



No. 4

ACME HOSE COUPLINGS

For quickly connecting and detaching hose. No. 3 part, for attaching to spigot. 15c. each; doz., \$1.50.

Parcel Post Weight, per doz., 3 lbs.

No. 4 part, for attaching to hose. 25c. each; doz., \$2.50. Weight, doz., 3 lbs.

Couplings complete, consisting of one No. 3 and one No. 4 part, 35c. each; per doz., \$3.75. Weight, per doz., 6 lbs.

HOSE REELS

Reels are not available.

WIRT'S (All Iron)

No.	Capacity	Price
10....	100 ft....	\$2.75
20....	150 ft....	3.25
30....	400 ft....	5.00

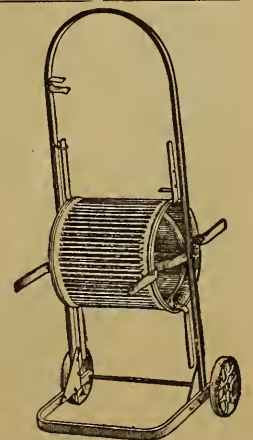
VICTOR HOSE REEL

With black iron drum.

Holds 100 ft. 3/4-in. hose. See cut, \$1.75.

HANOVER HOSE REEL

Capacity, 100 ft. \$3.25

**NOZZLE HOLDERS**

For sticking in the ground while one continues with other work. Made of galvanized heavy wire. Price, 15c. each.

Parcel Post Weight, 8 ozs.

GLAZING POINTS

Peerless. Made of zinc with tinned finish, can be used on right or left hand side of sash bar. Three sizes.

No. 1 for single thick glass.

No. 2 for single thick glass.

No. 2½ for double thick glass.

Price, 60c. per 1000. By mail, 10c. per 1000 extra.

Nos. 1 and 2 **Michell's Glazing Points.** Quite like the Peerless style. No. 2 and 2½, 55c. per 1000. (By mail, 65c.)

Pincers. For driving Michell's and Peerless Points, 50c. By mail, 55c.

Siebert Style. Made with a prominent head; cannot rust; easily driven. 5-8, 6-8 and 7-8 inches long. Zinc, 55c. per lb.; 5 lbs., \$2.60. 1000 to 1200 in a lb.

Brass, 60c. lb.; 5 lbs. \$2.75.

Zinc Glazing Nails, 50c. Siebert's Glazing Point per lb.; 5 lbs. \$2.40.



6-Wheel Glass Cutter

GLASS CUTTERS

Single Wheel, steel, each.....\$0.15

6-Wheel, steel, each..... .35

Diamond (ebony handle) 3.00

" (cocoa handle)..... 4.00



Mastica Machine

Putty Distributor

PUTTY DISTRIBUTOR

For distributing putty, mastica, etc.

Price, \$1.25. Parcel Post Weight, 1 lb.

MASTICA

For glazing greenhouses, new or old. One gallon will cover about 300 running feet.

½ gallon 8 lbs. \$0.75

1 " 15 lbs. 1.35

MASTICA MACHINE

For distributing mastica, etc. Made of heavy zinc. Price, \$1.40. P. P. Wt., 2 lbs.

PERMANITE GLAZING CEMENT

25 lb.....\$3.25 | 150 lb.....\$16.00



For supporting broken lights of glass. Per box of 100, \$1.10. P. P. Wt., 1¼ lbs.

TWEMLOW'S PUTTY

Superior to putty, more easily applied and lasting. Can be put on with a putty bulb or mastica machine.

16-lb. can (1 gal.). P. P. Wt., 18 lbs..\$1.50

50 lbs. (3 gals.)..... 4.50

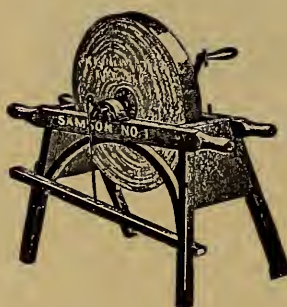
80 lbs. (5 gals.)..... 7.25

160 lbs. (10 gals.).....14.25

HAMMOND'S GREENHOUSE WHITE

A superior white paint. 1 gal.. \$1.90.

GRINDSTONES



Cleveland Grindstone

No. 2 Cleveland, 22 inches diam., \$4.50.

No. 3 Cleveland, 19 inches diam., \$4.00.

Bi-Treadle, complete with seat and pedals, \$5.50.

The above prices do not include water cups

MARATHON TOOL GRINDERS

The important point in hand grinding is the power, and from whence it comes. By a combination of cut spur gears and steel cut pinions arranged as we have in the "MARATHON,"

we obtain a very high speed (the stone travels over five thousand feet a minute) something unheard of before in hand grinding machines. This insures the quickest cutting results from the corundum stone with minimum wear.

No. 1, wheel ¾ x 5 inches.....\$4.50

" 2, wheel 1 x 5 inches..... 5.50

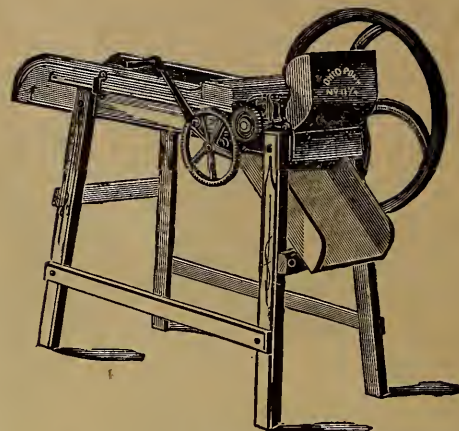
" 3, wheel 1 x 6 inches..... 6.50

" 4, wheel 1 x 7 inches..... 7.50

If treadle is wanted, add \$1.50 to the above prices.

BULL DOG TOOL GRINDER

An excellent device, ball-bearing, with a high-speed carborundum wheel; just the thing for hatchets, axes, knives, etc. \$1.50 each. Parcel Post Weight, 6 lbs.....



OHIO HAY AND FEED CUTTER

This is considered the finest machine in the market for cutting hay, ensilage, etc. Single knife, \$11.00; double knife, \$18.00. Mann's Clover Cutter for poultry raisers' use. Plain, \$8.00; on stand, \$10.00.

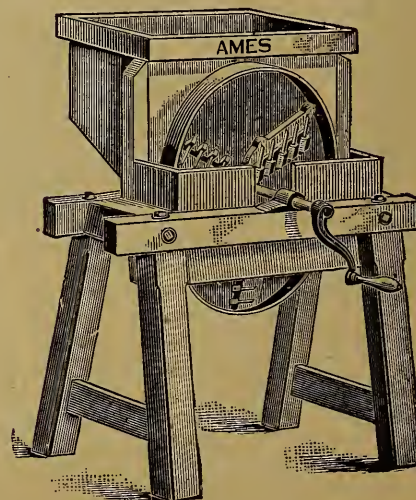


BANNER ROOT CUTTERS

No. 7 (see cut), for poultry, sheep and lambs. \$5.00.

No. 16, for cattle, horses, etc. Has a large capacity and is equipped with a pulley for power purposes. \$10.00.

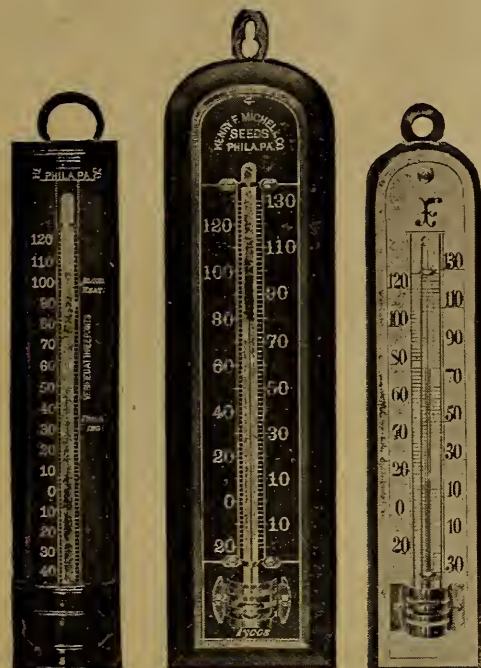
No. 20, like No. 16, but smaller, no pulley. \$8.00. No. 30, \$14.00.



AMES ROOT CUTTER

The knives are fastened on a revolving disc, and the roots come out in long thin strips. The hopper holds about 2 bu. of material. Nicely painted dark green. Price, \$12.00.

All prices subject to change



No. 5420 B No. 5100 No. 5232

THERMOMETERS**Maximum and Minimum**

Registering the coldest and the warmest point during the previous night.

8 inch, each \$2.75; 10 inch, each \$3.00.

Tested Thermometers

These thermometers are positively accurate and may be depended upon at all times. We can supply them in Mercury or Spirit Glass. State which is wanted in ordering.

	Each	Doz.
No. 5420B—8 inch, Tin Case..	\$0.50	\$5.50
No. 5420B—10 " " " "	.65	7.25
No. 5420B—12 " " " "	1.00	11.00
No. 5154—8 inch, Copper Case	.85	8.50
No. 5154—10 " " " "	1.00	11.00
No. 5100—8 inch, Wood Back, Black Scale (see cut).....	1.25	14.00
No. 5100—10 inch, Wood Back, Black Scale.....	1.50	16.00
No. 5232—8 inch, Wood Back, Porcelain Scale (see cut)....	1.00	11.00
No. 5232—10 inch, Wood Back, Porcelain Scale.....	1.25	14.00

Standard Thermometers

White scale, tin case; very reliable.

8 inch, No. 5420W..	Each \$0.30	Doz. \$3.25
10 " No. 5420W..	.40	4.25

MUSHROOM OR HOT BED THERMOMETERS

Galvanized Iron Point.....	Each, \$1.00
Brass Point.....	" 1.50

GLASS DAIRY THERMOMETERS

No. 5724. For testing milk, etc., also used for soil purposes. 25c. each; doz., \$2.50.

ELECTRIC THERMOSTAT

This device can be set to ring an alarm when the temperature goes above or drops below a desired point, absolutely reliable, all brass. Regular style; \$6.00; Waterproof style, \$11.00.

RECORDING THERMOMETERS

With weekly or daily charts showing the temperature for each minute of the day and night. No. 100, price \$22.00; No. 200 (extra quality), \$27.50.

We can supply Incubator and Brooder Thermometers, also Hygrometers, also any other style of Thermometer for Horticultural purposes.

*The Boss Wire Fruit Picker**Up-to-Date
Picker**Crider Picker***FRUIT PICKERS**

	P. P. Wt.	
Boss .....	.2 lbs.	\$0.35
Up-to-Date .....	.2 lbs.	.15
Crider's .....	.2 lbs.	.15

OAK BASKETS for gathering fruit.
(See page 225.)

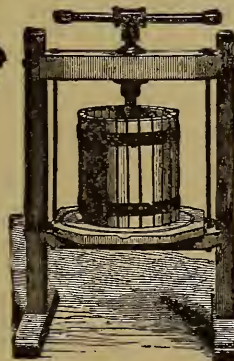
*Cider Mill***CIDER
MILLS**

Junior	\$12.00
Medium ...	16.00
Senior	21.00
" for power	25.00
Little Boss.	10.00
Gem No. o.	8.00
" No. 1.	10.00

**WINE
PRESSES**

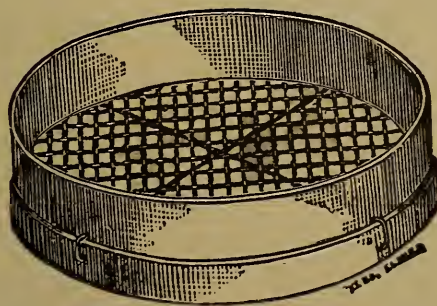
Made of best quality wood, carefully bolted and finished.

No. 1	\$4.00
No. 2	5.00
No. 2½	5.75
No. 3	6.25

*Wine Press***GRAPE GRINDER**

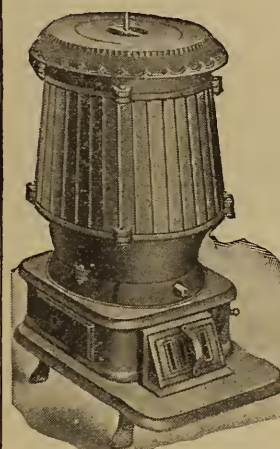
Suitable for crushing berries, grapes and similar soft fruit.

Price\$3.50

**SIEVES (ANY SIZE MESH)**

Made extra well, of galvanized wire and hard wood.

	P. P. Wt.	
20 inch Extra heavy .....	.6 lbs.	\$0.95
20 inch Regular wire .....	.6 lbs.	.85
18 inch Regular wire .....	.6 lbs.	.75
16 inch Regular wire .....	.6 lbs.	.65

**HOT WATER
STOVE**

An excellent make, efficient and economical in coal consumption. For heating hot beds, small greenhouses, conservatories, poultry houses and garages they are just the thing. They can easily be installed and connected by almost any handy man. Price quoted below is for the stove only.

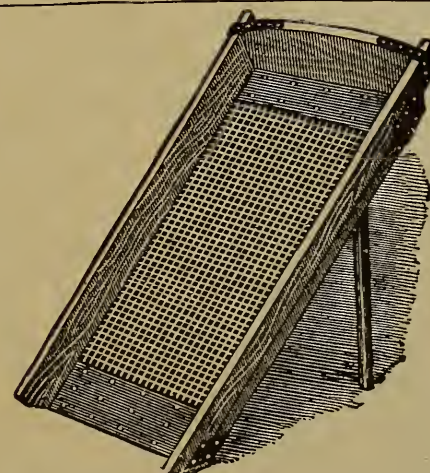
	Capacity of In. Pipe	Radiation	Price
No. 0	150 ft.	50 sq. ft.....	\$13.00
No. 1	200 " "	75 "	16.50
No. 2	400 " "	150 "	25.00
No. 4	600 " "	300 "	32.00

Send for full descriptive list on these hot water stoves.

CARRIAGE AND AUTOMOBILE HEATERS

These heaters will keep the temperature above freezing in most any ordinary closed vehicle during the severest weather. Just the thing for either a limousine or an open car.

	P. P. Wt.	Each
5. Single drawer, 14 in.	5 lbs.	\$2.25
5B. Single drawer, 14 in., covered with Brussels carpet.	6 lbs.	2.75
7B. 20 in., Brussels carpet....	7 lbs.	4.50
10. Three drawers. (See cut.)		7.25
Coal for Auto Heaters. 75c. doz. bricks; per 100, \$6.00. Weight, 8 lbs. per doz.		
Tongs for Handling Hot Coals. 25c.		
Parcel Post Weight, 1¼ lbs.		



Large Upright Sieve for soil, gravel, sand, etc. Made in any size mesh, of extra heavy foundry wire, \$8.00 each.

**SOD CRUSHER AND SOIL
PULVERIZER**

These machines are equipped with a hopper, and a roller, the latter being spiked. It is turned by means of a handle and crushes the soil perfectly, avoiding the necessity to sift.

No. 1, \$16.00	No. 2, \$21.00	No. 3, \$31.00
----------------	----------------	----------------

218 "Illinois" Self-Watering Flower Boxes and Baskets



ILLINOIS PORCH BOXES

Made of a heavier grade of iron than the window boxes, of about the same form, but are both wider and deeper. They are made slightly smaller across the bottom than across the top. Brass eyelets are ranged along the top edges so they may be hung from cornice of porch if desired.

No.	Height	Width	Length	Water capacity	Price
21	9 in.	12	37 in.	7 qts.	\$3.00
22	9 in.	12	41 in.	8 qts.	3.40
23	9 in.	12	45 in.	9 qts.	3.75
24	9 in.	12	49 in.	10 qts.	4.00
25	9 in.	12	53 in.	11 qts.	4.25

Made entirely of metal, handsomely finished and enameled dark green and warranted five years against rot, rust or leakage.

Constructed with reservoir in bottom, which automatically waters plants *at the roots* for 10 to 20 days without attention. Our sales on this type of box and basket have been on the increase constantly; they are suitable for living room, conservatory or enclosed porches.

ILLINOIS WINDOW BOXES

No.	Height	Width	Length	Water capacity	Price
1	8 in.	9½	23 in.	2½ qts.	\$1.60
3	8 in.	9½	27 in.	3½ qts.	1.80
5	8 in.	9½	31 in.	4½ qts.	2.00
7	8 in.	9½	35 in.	5½ qts.	2.20
9	8 in.	9½	39 in.	6½ qts.	2.40

ILLINOIS HANGING BASKETS

You will never know how nice a Hanging Basket is until you have tried the "Illinois" style. No taking down to water. No attention at all except filling reservoir once a week.

No.	Size	Depth	Water capacity	Price
8	8 in. sq.	7 in.	1 qt.	\$1.00
10	10 in. sq.	7 in.	1½ qt.	1.25
12	12 in. sq.	8 in.	2½ qt.	1.50
14	14 in. sq.	9 in.	3½ qt.	1.75

Chain for same, 5c. per foot. It requires 4 chains to hang a basket, so in remitting please include sufficient to cover payment for the hanging chain, remembering that if you want the basket to hang 2 feet this distance should be multiplied by 4 to pay for the entire number of feet of chain required.



Illinois Porch and Window Boxes and Hanging Baskets can be shipped by express or freight only.

The Kirke System of Insecticide and Fertilizer Application

This system consists of a nickel-plated receptacle generally called the cartridge holder. This is equipped with a reservoir into which can be put a cartridge of insecticide and fungicide, or one of fertilizer as the occasion requires. The cartridge holder may be attached to the end of the hose followed by the nozzle or it may be attached directly to the spigot and followed

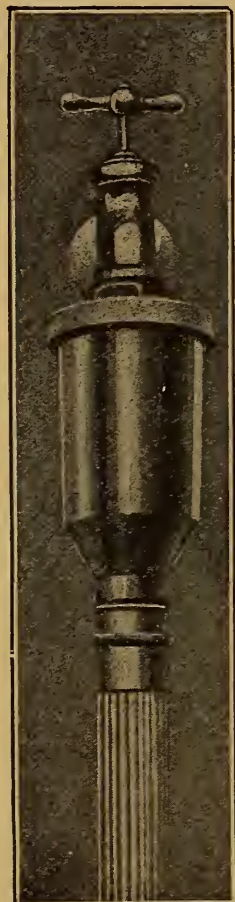
by the hose. The cartridges are very hard in substance, highly concentrated and only a small amount is required to show results. As the water passes through the cartridge holder into which a fertilizer or insecticide cartridge has been placed the requisite amount of either material placed therein is carried through by the water pressure and applied to the plants or lawns. Practical gardeners claim this to be one of the best means of applying insecticides or fertilizers. It requires about 5 hours to dissolve one of the cartridges, so it will be seen that the method is economical.

The Fertilizer cartridges are rich in all the plant food elements, are absolutely odorless and clean to handle; for feeding a lawn they will be found especially effective. The fungicide cartridge can be applied when treating plants or trees that have been affected with mildew, black spot or blight. The Insecticide cartridge, consisting of a concentrated form of nicotine, is excellent for destroying and controlling aphids, green fly, etc. The Arsenate of Lead cartridge is designed for destroying and controlling all leaf biting and sucking insects that attack outdoor plants.

PRICES OF KIRKE SYSTEM CARTRIDGES AND CARTRIDGE HOLDER

Nickel Cartridge Holder ready to attach to any ¾-inch garden or greenhouse hose, \$3.00.

	Each	Per 6	Per Doz
Fertilizer Cartridges	\$0.30	\$1.60	\$3.00
Tobacco Insecticide Cartridges. For			
outdoor use .....	.30	1.60	3.00
Arsenate of Lead Cartridges.....	.40	2.30	4.50
Bordeaux Mixture Cartridges.....	.30	1.60	3.00
Tobacco Cartridges for Green-			
house use .....	.50	2.75	5.00



Showing how the Kirke Fertilizer and Insecticide Cartridge holder is attached to the spigot.



Showing the Kirke Cartridge holder for fertilizing or insecticide purposes in lawn work.



WOVEN CEDAR PICKET FENCING

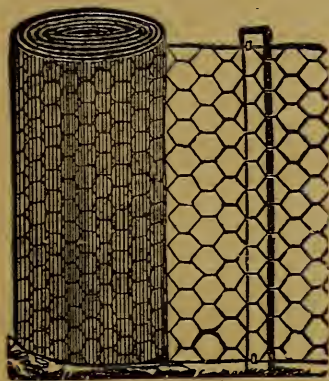
Is tailor-made compared to the ordinary kinds of ready made fencing. Will wear for years absolutely without paint. Readily put up and saves time, labor and expense of fence building. It is far ahead of and will outwear the old style wire fence by many years. In handy rolls of 50, 75 and 100 ft. only.

3 ft. high, with 4 gal. steel double wire cables, 6c. per running foot.

4 ft. high, with 5 gal. steel double wire cables, 8c. per running foot.

5 ft. high, with 6 gal. steel double wire cables, 10c. per running foot.

State height and length of roll required when ordering.



WIRE NETTING

No. 19, galvanized, two-inch mesh, 150 running feet per bale.

Width	Per bale	Width	Per bale
12 inches.....	\$1.25	42 inches.....	\$3.80
18 ".....	1.75	48 ".....	4.40
24 ".....	2.40	60 ".....	5.40
30 ".....	2.80	72 ".....	6.50
36 ".....	3.40		

No. 20, galvanized, one-inch mesh, 150 running feet per bale.

Width	Per bale	Width	Per bale
12 inches.....	\$2.50	42 inches.....	\$8.00
18 ".....	3.00	48 ".....	9.00
24 ".....	4.75	60 ".....	11.25
30 ".....	5.75	72 ".....	13.50
36 ".....	7.00		

Staples, $\frac{3}{4}$ inch, for fastening netting, 10c. per lb.; 10 lbs. for 85c.

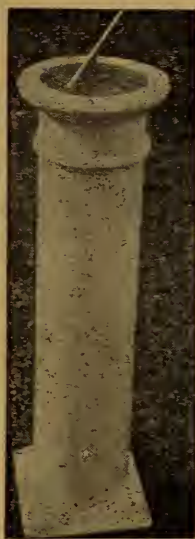
CUT WIRE NETTING

2-in. mesh, under 100 sq. ft., $1\frac{1}{2}$ c. per sq. ft.; 2-in. mesh, 100 sq. ft. and over, 1c. per sq. ft.; 1-in. mesh under 100 sq. ft., 3c. per sq. ft.; 1-in. mesh, 100 sq. ft. and over, 2c. per sq. ft.

PITTSBURG FENCING

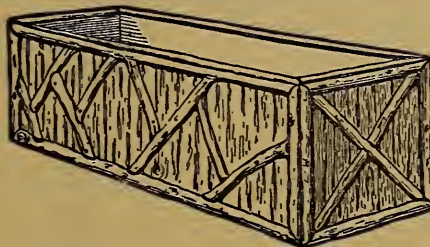
The most substantial fencing possible to procure. The joints being welded by electricity, make it exceedingly attractive. It is thoroughly galvanized, extra well made and is the up-to-date fencing for poultry yards, etc. Top and bottom strands of No. 11 wire; centre of No. 14 wire, in bale lots only, of 165 feet. 6 inch stays only.

No.	Per Bale	No.	Per Bale
2412—24 in....	\$3.50	5218—52 in....	\$5.25
3615—36 in....	4.50	5819—58 in....	5.50
4617—46 in....	5.00		



SUN DIAL

This ancient time teller is a part of every exclusive flower or vegetable garden, and indeed a very interesting one. It is made of cast iron with screw holes, so it may be fastened down to a pedestal or other foundation. The figures are raised, so that they may be easily renovated with paint or otherwise, when weather-beaten. Dial face is 8 ins. in diameter, bottom 10 ins. in diameter, finished in black, gilded figures; without pedestal, \$2.50. P. P. Wt., 6 lbs.



WINDOW BOXES, Etc.

Wooden Rustic Bark Style. Attractively made and neatly finished; for indoor or outdoor use.

Length	Depth outside	Width outside	Price
24-inch.....	7 $\frac{1}{2}$ -inch	11-inch	\$1.40
30 ".....	7 $\frac{1}{2}$ "	11 "	1.75
36 ".....	7 $\frac{1}{2}$ "	11 "	2.10

Any length made to order, 75c. per running foot, 11 inches wide.

Plain Wood Style (Painted Green). We recommend these for use at the temporary summer home in the country or at the seashore, or in cases where one may not feel like spending a larger cost than these entail. They are substantially made and finished and will last many years.

Length	Depth outside	Width outside	Price
24-inch.....	6 $\frac{1}{2}$ -inch	8-inch	\$0.80
30 ".....	6 $\frac{1}{2}$ "	8 "	1.00
36 ".....	6 $\frac{1}{2}$ "	8 "	1.20

Any length made to order, 45c. per running foot, 8 inches wide.

Rustic Bark (Natural Cedar). For covering boxes, columns or any other article. Per sq. ft., 5c.; \$1.00 per 25 sq. ft.; 50 sq. ft. and over, at $\frac{3}{4}$ c. per sq. ft.

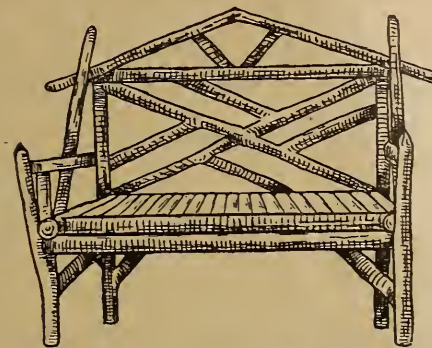
COLONIAL GARDEN SEATS

Made of wood and finished in a most exclusive manner. Sample carried on show room floor, stock is made up and furnished on demand, as required, promptly, and finished in any shade or tint. Price, \$1.75 per running foot. Any length desired. 19 ins. wide, with beveled edges.

RUSTIC HANGING BASKETS

These are made in attractive patterns, oblong design, finished natural oak and very rustic indeed. Will last many years.

8-inch oblong.....	\$1.50 each
10 ".....	1.75 "
12 ".....	2.00 "
Not available.	



RUSTIC SETTEES

Elwood Style (see cut). \$3.50 each.

Florida Style. \$3.50 each.

Klondike Style. \$6.00 each.

Mission Style. \$6.00 each.

RUSTIC CHAIRS, SETTEES, Etc.

Klondike Chair. Price, \$4.50.

Elwood " Price, \$2.75.

Mission " Price, \$4.50.

Mission Table. \$4.00.



LAWN GUARDS

For grass corners, flower beds, etc. Iron (see cut) nicely painted green, 75c. each; per doz., \$8.25. Not available.

Wire, made extra heavy and well galvanized. Price, 20c. each; per doz., \$2.00.

Not available.

LAWN SIGNS

Excellent for putting on grass plots where thoroughfare is not desired.

Iron (shown opposite), painted gray, trimmed red. 40c. each; per doz., \$4.00. Parcel post weight, 4 lbs.



KEEP OFF THE GRASS

Enameled Iron Style. This pattern is the best for conspicuous places. The name plate is finished with green and white enamel, is 20 inches long and about 4 inches wide. Equipped with a substantial iron stake. \$1.00 each; per doz., \$10.00. Parcel post weight, 3 lbs.

PLANT STAKES, WIRE, ETC.

GREEN TAPERING STAKES

Parcel Post Weight Per Doz.	Each	Doz.	100
1½ feet..... ½ lb.	\$0.02	\$0.17	\$1.00
2 "..... ½ lb.	.03	.28	1.70
2½ "..... 1 lb.	.04	.39	2.40
3 "..... 1¼ lbs.	.05	.51	3.20
3½ "..... 1½ lbs.	.06	.63	4.00
4 "..... 2 lbs.	.07	.75	4.80
5 ".....	.08	.88	5.60

ROSE OR DAHLIA STAKES

Round tapering style; painted green.

Parcel Post Weight Per Doz.	Each	Doz.	100
3 feet..... 2½ lbs.	\$0.08	\$0.75	\$4.85
3½ "..... 4 lbs.	.09	.88	5.68
4 "..... 5 lbs.	.10	1.10	6.50
5 ".....	.12	1.25	8.15
6 ".....	.15	1.55	9.80

SQUARE PLANT STAKES

These are painted green and nicely tapered and finished.

Parcel Post Weight Per Doz.	Each	Doz.	100
1½ feet..... ½ lb.	\$0.02	\$0.14	\$1.00
2 "..... ½ lb.	.02	.22	1.58
2½ "..... 1 lb.	.03	.31	2.25
3 "..... 2 lbs.	.05	.50	3.60
3½ "..... 2½ lbs.	.06	.59	4.28
4 "..... 4 lbs.	.07	.69	4.95
5 ".....	.09	.94	6.75
6 ".....	.12	1.19	8.55

WOOD DOWEL STAKES

Length	Diam.	Parcel Post Wt. per doz.	Doz.	100	1000
24 in....	¾ in....	1 lb.	\$0.12	\$0.70	\$5.25
24 ".....	¾ ".....	½ lb.	.12	.70	5.25
36 ".....	¾ ".....	¾ lb.	.15	.85	6.50
36 ".....	¾ ".....	¾ lb.	.15	.85	6.50
36 ".....	¾ ".....	1 lb.	.15	.85	6.50
36 ".....	¾ ".....	1¼ lbs.	.15	.85	6.50
36 ".....	¾ ".....	3 lbs.	.20	1.25	9.00
42 ".....	¾ ".....	½ lb.	.20	.95	7.50
42 ".....	¾ ".....	1 lb.	.20	.95	7.50
42 ".....	¾ ".....	1½ lbs.	.20	.95	7.50
42 ".....	¾ ".....	1½ lbs.	.20	.95	7.50
42 ".....	¾ ".....	4 lbs.	.25	1.35	11.00

The above are plain stakes, if wanted dyed green add 5c. per doz.; 15c. per 100; per 1000, \$1.00 to the above prices.

CANE STAKES (Natural)

	Doz.	100	250	1000
Southern, 8 to 9 ft.	\$0.25	\$1.00	\$2.25	\$8.00
Japanese, 5 to 6 ft.	.25	1.00	2.25	8.00

JAPANESE GREEN CANE STAKES

	Doz.	100	500	1000
1½ feet.....	\$0.12	\$0.60	\$2.25	\$3.75
2 ".....	.15	.75	2.50	4.50
2½ ".....	.20	.85	2.75	5.00
3 ".....	.25	1.00	3.25	6.00
4 ".....	.30	1.20	4.50	8.00

BAMBOO POLES

18 ft., very strong; used extensively for brushing worm casts off Putting Greens. Each, 25c.; doz., \$2.50; \$15.00 per 100.

HYACINTH STAKES

Used for staking hyacinths, tulips and slender plants; dyed green.

Parcel Post Weight per 100	Doz.	100	1000
5 in..... 1½ lbs.			
12 "..... 2 lbs.	\$0.05	\$0.25	\$1.50
18 "..... 2 lbs.	.08	.40	2.00
18 " heavy 7-32 in. diam..... 3 lbs.	.10	.50	3.25

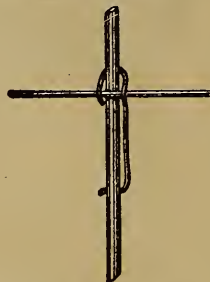
GALVANIZED WIRE STAKES

No. 10 Wire, light

Parcel Post Weight doz.	Doz.	100	1000
2 feet..... 1½ lbs.	\$0.12	\$0.75	\$5.75
2½ "..... 1½ lbs.	.15	.90	7.20
3 "..... 2 lbs.	.18	1.05	8.90
3½ "..... 2¼ lbs.	.22	1.30	10.35
4 "..... 2½ lbs.	.25	1.50	12.05
4½ ".....	.30	1.60	13.80
5 ".....	.35	1.80	14.55
6 ".....	.40	2.10	16.40

No. 8 Wire, heavy

Parcel Post Weight doz.	Doz.	100	1000
2 feet..... 2 lbs.	\$0.15	\$0.90	\$7.20
2½ "..... 2½ lbs.	.18	1.20	8.90
3 "..... 2¾ lbs.	.22	1.45	10.90
3½ "..... 3 lbs.	.26	1.60	12.90
4 "..... 3½ lbs.	.30	2.05	16.10
4½ "..... 4 lbs.	.35	2.25	17.25
5 ".....	.40	2.40	18.40
6 ".....	.45	2.70	20.70



Everlasting Stake Fastener Blake Lock Clip

STAKE FASTENERS

These take the place of string entirely, lasting several seasons, used for fastening cross wires to galvanized stakes.

	Parcel Post Weight per 100	500	1000
Blakes..... 2 ozs.	\$0.85	\$1.60	
Everlasting..... ½ lb.	1.75	3.25	
Eureka..... ¼ lb.	1.00	1.90	



WIRE IN STONES

Allow for postage if wanted by mail.

No.	Galvanized	Lb.	12 lb. Stone
No. 16.	\$0.10	\$0.85
No. 18.11	1.00
No. 19.12	1.10
No. 20.13	1.15
No. 22.14	1.30
No. 24.15	1.50
No. 16.	Annealed	.08	.70
No. 18.09	.80
No. 20.10	.85
No. 22.11	.90
No. 24.12	1.10

TINNED WIRE

No. 19, used for bunching celery, etc.

In 10-lb. boxes, cut 8½ inches, 15c. per lb.; per box, \$1.40.

CUT BOUQUET WIRE

For Stemming Flowers

Cut 9, 12 or 18 inches in length.

No. 20, 12c. per lb.; per box, 12 lbs., \$1.30

No. 22, 14c. per lb.; per box, 12 lbs., 1.40

No. 24, 15c. per lb.; per box, 12 lbs., 1.50



RAFFIA

For tying, basket making and fancy work, very long and fibrous.

Natural Color. Price, 20c. per lb.; 5 lbs. for 90c.

Colored. In all shades. Send for samples of color. 20c. per ¼ lb.; 1 lb., 60c.; \$2.50 for 5 lbs. Allow for postage if Raffia is wanted by Parcel Post.

RAFFIATAPE

This article is made of a composition of paper and linen and is tremendously strong, it is about ¼ inch wide and is put up in 250 yard bolts or hanks. This is also desirable for tying bouquets, flower boxes or for any other purpose where attractive tying material is desired. Color, Nile green. Parcel Post Weight, per bolt, ½ lb.

Per bolt of 250 yards, 75c.; 6 bolts, \$4.25; 12 bolts, \$8.00.



TWINES, ETC.

	Ball	lb.
No. 12, Light Italian Twine....	\$0.20	\$0.40
No. 18, Medium Italian Twine....	.20	.40
No. 24, Heavy Italian Twine....	.20	.40
No. 36, Heavy Italian Twine....	.20	.35
2 ply, 3 ply and 5 ply jute.....	.10	.20
Linen Bouquet.....	.08	.45
Boston Linen, 2 and 3 ply.....	.20	.35
Green Sea Island.....	.10	.45
Special Thin White Cotton....	.08	.30
2 ply Texas White Cotton.....	.07	.30
Tarred, for Mat Making.....	.20	
Tarred Sisal for Fodder.....		.12
Binder (5-lb. ball).....	.75	
Express, very heavy.....	.15	
Green Silkaline. For stringing Smilax and Asparagus, etc. F, fine; FF, medium; FFF, coarse.		
Price, per spool, 25c.		
Price, per lb. (8 spools).....	\$1.50	
Green Linen (substitute for Silkaline), very similar to the above, fast color.		
Price, 20c. per ball; 85c. per lb.		

All Prices subject to Market Changes

(hn)



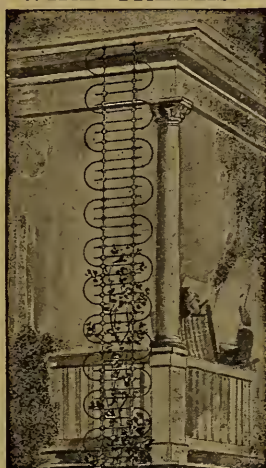
FLOWER BED FENCING

For putting around beds, lawns, etc. Any length desired up to 150 running ft.
16 in. Less than 150 ft. roll, 13c. ft.
16 in. In Roll Lots, 150 ft., 10c. ft.
22 in. Less than 150 ft. roll, 15c. ft.
22 in. In roll lots, 150 ft., 12c. ft.

CONTINUOUS WIRE TRELLIS

Excellent for training vines of all kinds up porches, verandas, pergolas, etc. Thoroughly galvanized and well made.

Any length desired up to 150 running feet.
13 in. wide. Less than 150 ft. rolls, 13c. per ft.
13 in. wide, in roll lots, 150 ft., 10c. per ft.
19 in. wide, less than 150 ft. rolls, 15c. per ft.
19 in. wide, in roll lots, 150 ft., 12c. per ft.



Continuous Trellis

WIRE TRELLIS

12 inch high.....\$0.20
18 inch high..... .30
24 inch high..... .40
30 inch high..... .65
36 inch high..... .75
42 inch.....\$1.10 | 60 inch. 1.75
48 inch. 1.30 | 72 inch. 2.25



VINE OR WALL NAILS

For fastening climbing vines, equipped with a soft metal clasp which holds the vine against the wall.

1-in., doz. 15c., per 100 \$1.00; 1½-in., doz., 20c., per 100 \$1.25; 2-in., doz. 25c., per 100 \$1.50.

FAN TRELLIS

Made of wood, painted green.

18 inch.....\$0.15 | 36 inch.....\$0.50
24 inch..... .20 | 42 inch..... .60
30 inch..... .25 | 48 inch..... .70



WIRE TRELLIS (Made to Order)

We are able to have made, at short notice, special sizes of wire trellis, any length and any width, at 25c. per sq. ft.



WIRE TREE GUARD

Carefully galvanized, thoroughly made, 9 in. diam., \$1.00; doz., \$11.00.
12 in. diam., \$1.25 doz. \$13.00.



No. 4 IRON TREE GUARD

12 in. diameter, 5 ft., 4 in. high. Price, \$2.50 each; per doz., \$25.00.

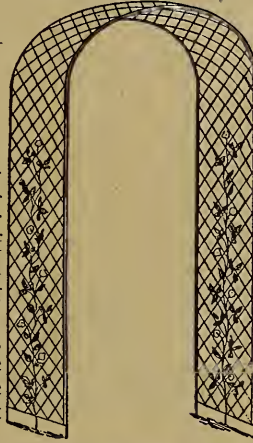
OFFICIAL PHILA. TREE GUARD

Of round iron, 5 ft., 4 in. high; 14 in. diameter, \$3.00 each; doz., \$35.00.

GALVANIZED WIRE ARCHES

These can be furnished on short notice any height or any width. Made of heavy diamond mesh wire with strong frames.

20c. per sq. foot, Special heavy wire work arches can be supplied at lowest prices.



VERANDA TRELLIS

Made of wood and painted green.

2 feet.....\$0.35 | 6 feet, heavy. \$1.00
3 feet..... .45 | 8 feet, heavy. 1.35
4 feet..... .60 | 10 feet, heavy. 1.60
5 feet, heavy. .85 | 12 feet, heavy. 2.00

Larger sizes to order.



IVY TRELLIS

Made of wood, painted green.

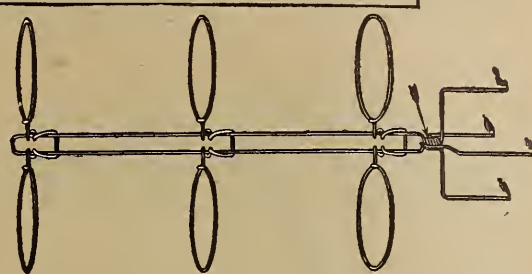
16 in. diam., 45c.
20 in. diam., 60c.
24 in. diam., 75c.



OVAL TRELLIS

Made of wood, painted green.

24 inch25c.



Müller Carnation Support

MÜLLER'S DOUBLE SUPPORT

One of the best on the market, easily put together. After the rings are detached it folds flat, thereby requiring very little storage room when putting away.

Per doz. 75c.; \$4.50 per 100; per 1000, \$42.00.

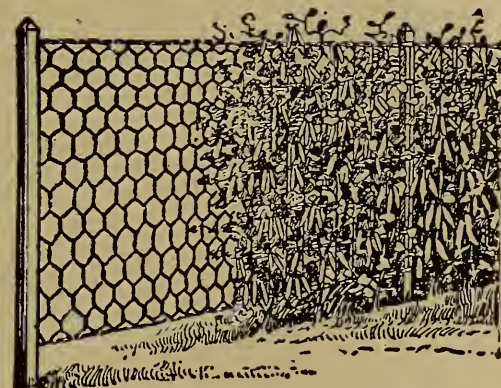
RICHMOND CARNATION SUPPORT

This is now the most popular support that there is. It can be put together in a minute, and is always satisfactory.

No. 11	Per Doz.	100	1000
29 inch, 3 ring, double	..\$0.65	\$4.50	\$42.50
29 inch, 3 ring, single	... .50	3.50	32.00

"MODEL" CARNATION SUPPORTS

	Per doz.	100	1000
2 Ring	\$0.60	\$3.75	\$35.00
3 Ring .....	.75	4.00	37.50



WIRE PEA TRELLIS

This does away with brush, twine, etc., and avoids the necessity of peas lying on the ground and wasting; made of best wire and painted wood. It is 48 inches high and in 10 foot sections, with 3 suitable 5½ foot stakes for fastening in the ground; can be put away and used year after year. \$1.00 per section; 10 sections for \$9.00.



Model Tomato Support

TOMATO OR PAEONY SUPPORT

These pay for themselves the first season. They insure more flowers and better fruit.

Model (Wire). Each 20c.; doz., \$2.00; \$14.00 per 100.

Müller (Wire). Each, 30c.; doz., \$3.25; \$23.50 per 100.

Perfection (Wood). Each, 25c.; doz., \$2.75; \$22.00 per 100.

IRON PLANT STANDS**STAR STYLE**

Somewhat similar to the "Superior," excepting that they are not fitted with the tilting device, and are finished in black varnish.

Height	Each	Doz.
12 inches....	\$0.70	\$7.70
18 " ....	.80	8.80
24 " ....	.95	10.50
30 "	1.15	12.25
36 "	1.40	15.50
42 "	1.55	16.50

SUPERIOR STYLE

Can be tilted to set your plants at any angle desired to produce the proper decorative effect. Enameled green.

Height	Size of Plates	Price Each	Per Doz.
12 inch	5 x 7	\$0.85	\$9.00
18 "	5 x 7	.95	10.00
18 "	8 x 10½	1.05	11.75
24 "	8 x 10½	1.15	13.00
24 "	8 x 12	1.25	14.25
30 "	8 x 10½	1.35	14.75
30 "	8 x 12	1.45	15.75
36 "	8 x 10½	1.55	15.75
36 "	8 x 12	1.65	16.75
42 "	8 x 10½	1.75	16.75
42 "	8 x 12	1.80	18.00
48 "	8 x 12	1.85	19.50
60 "	8 x 12	1.95	20.75
72 "	8 x 12	2.05	22.00

EXTRA PLATES FOR IRON STANDS

For Superior		For Star Stands	
Each	Doz.	Each	Doz.
5 inch .. \$0.30	\$3.30	\$0.25	\$2.85
7 "35	3.75	.40	4.40
8 "50	5.50		
10½ "55	6.00	.50	5.50
12 "65	7.00		

WIRE PLANT STANDS

These are nicely painted dark green and finished in bronze. They are very substantial and will carry most any weight that can be placed on them. We especially recommend the Jones style, as it is collapsible and takes up very little space when not in use.

**Square Style Half Round Style**

1 shelf.....	\$2.25	
2 "	3.00	\$3.00
3 "	4.00	4.00

JONES' COLLAPSIBLE STYLE

(See cut.)

2 shelf.....	\$2.25	3 shelf.....	\$3.25
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SPRAYWELL RUBBER SPRINKLERS

Either Straight Neck or Crook Neck.

6-oz. capacity. Weight, 8 ozs.\$0.55

8-oz. capacity. Weight, 1 lb.85

10-oz. capacity. Weight, 1 lb. 1.00

PAINTED POT LABELS

		P. P. Wt.	Per 100	100	500	1000
4 inch	½ lb.	\$0.12		\$0.50	\$0.85	
4½ "	½ lb.	.15		.60	1.00	
5 "	½ lb.	.20		.70	1.25	
6 "	¾ lb.	.25		.85	1.50	
8 "	2 lb.	.40		1.85	3.50	
10 "	2½ lb.	.50		2.40	4.50	
12 "	3 lb.	.75		3.25	6.00	
18 "	for field use..	3.25			30.00	

WOOD TREE LABELS, Etc.

P. P. Weight on Tree Labels, ½ lb. per 100.

		Per 100	Per 1000
Iron Wired. Plain	\$0.15	\$1.00	
" " Painted .....	.20	1.25	
Copper Wired. Plain .....	.20	1.25	
" " Painted .....	.25	1.50	
Copper Sheet, wired..	20c. doz.; 100, \$1.10		
Zinc Sheet, wired....	20c. doz.; 100, \$1.10		
Indelible Marking Pencils.....	each, 5c.		

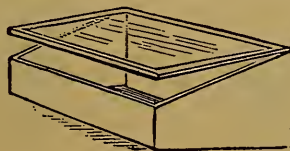
GARDEN MARKERS

For labeling perennials, garden rows, beds or individual plants.

Made of heavy metal, enameled black. The card is covered with a celluloid face, which protects it from the weather. The angle of this label is so as to make it easily read. The holder has a large capacity for cards, so that several years' records may be kept together.

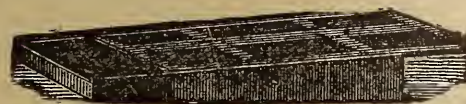


	Each	Doz.	100
No. 5—8 inches high..	\$0.15	\$1.50	\$12.00
No. 5A—18 inches high	.20	2.00	15.00
No. 5B—24 inches high	.25	2.50	18.00

**MINIATURE HOTBEDS**

These are very handy to use in connection with window gardening. Suitable for raising seedlings or for rooting cuttings. Seeds started in these will mean an early flower or vegetable garden. 12 x 20 in. \$1.50 each. Complete with glass. Not mailable.

For Large Size Hot Bed Sash, Hot Bed Mats, etc., see opposite page.

SHADING OR PROTECTING CLOTH

Largely used as a substitute for glass where protection is desired. It is admirable for summer use, protecting plants, etc., from sun and at the same time allowing ventilation.

	Yds. Per Piece	Per Price	Per Yd.	Price Per Pc.
Light. Brown cloth..	60	\$0.06		\$3.30
Medium. Brown cloth	60	.10		5.40
Heavy. Brown cloth.	40	.14		5.20

**BAMBOO GREENHOUSE SHADES (Painted Green)**

These are much more satisfactory than either the glass shading process or shading cloth. The shades last for years, being substantially made. They add materially to the appearance of the greenhouse. Each shade is equipped with pulley and rope. The shades are placed on the outside of the greenhouse, fastened at the top, so they can be rolled up or let down at will.

	Each
6 feet wide, 8 feet long.....	\$3.00
8 " " 8 " "	3.50
10 " " 8 " "	4.00
10 " " 10 " "	4.50

**GRAPE PROTECTING BAGS**

If put on during the period when grapes are forming, they will save many times their cost in the amount of fruit they will save from insects, rot, etc. All ready with wire to fasten.

	P. P. Wt.	Per 100	100	1000
2 lb. size	1½ lb.	\$0.30		\$2.75
3 lb. size	1½ lb.	.35		3.25
4 lb. size	1½ lb.	.40		3.75

CEDAR TUBS

Equipped with Strong Iron Hoops

These are made by hand, of the very best white cedar painted green. They will be found very much superior to lower priced cedar tubs.



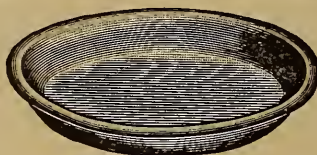
Cedar Plant Tub

No.	Outside Diam.	Length of stave outside	Black Iron Hoop	Galv Hoop
No. 0....	27 in.	24 in.	\$5.50	\$6.00
No. 1....	25 " "	22 " "	5.00	5.50
No. 2....	23 " "	20 " "	4.50	4.90
No. 3....	21 " "	18 " "	4.00	4.40
No. 4....	19½ " "	16 " "	3.00	3.35
No. 5....	18 " "	14 " "	2.75	3.10
No. 6....	16½ " "	13 " "	2.25	2.55
No. 7....	15 " "	12 " "	2.00	2.30
No. 8....	12 " "	10 " "	1.75	1.95

Tubs cannot be sent Parcel Post.

ROLLING STANDS (Wood Fibre)

Ins.	Parcel Post Weight	Will fit Pot	Tub	Each	Doz.
12....	2 lbs.	10 in.	No. 8	\$0.58	\$6.60
14....	2½ lbs.	12 " "	" 8	.68	7.80
16....	3 lbs.	14 " "	" 7-6	.76	8.60
18....	3½ lbs.	16 " "	" 5	1.15	13.20
20....			" 4	1.44	16.50

**WOOD FIBRE SAUCERS**

Extremely desirable on account of being absolutely waterproof.

4 inches	Parcel Post Weight Each	Each	Doz.	100
4 inches.....	¼ lb.	\$0.11	\$1.24	\$9.27
5 "	¼ lb.	.13	1.44	10.80
6 "	¼ lb.	.14	1.45	11.25
7 "	½ lb.	.15	1.62	12.15
8 "	½ lb.	.16	1.74	13.05
9 "	¾ lb.	.17	1.92	14.40
10 "	¾ lb.	.18	2.04	15.30
12 "	1¼ lbs.	.21	2.40	18.00
14 "	1½ lbs.	.28	3.18	23.85
16 "	2 lbs.	.49	5.52	41.40
18 "	2½ lbs.	.58	6.50	49.50
20 "	3 lbs.	.82	9.00	67.50
22 "	5 lbs.	1.10	12.00	90.00

**EARTHENWARE SAUCERS**

These cannot be sent by Parcel Post.

4 inches	Each	Doz.	100
4 inches.....	\$0.02	\$0.15	\$1.12
5 " .....	.03	.18	1.40
6 " .....	.04	.24	1.88
7 " .....	.05	.31	2.40
8 " .....	.06	.47	3.60
9 " .....	.08	.62	4.80
10 " .....	.09	.78	6.00
11 " .....	.11	.94	7.20
12 " .....	.15	1.17	9.00
14 " .....	.25	1.95	15.00



Fern Liner

**EARTHEN FERN PANS**

These cannot be sent by Parcel Post.

Width	Height	Each	Doz.	100
4 in.	1½ in.	\$0.04	\$0.31	\$1.65
4¾ " "	2½ " "	.05	.33	2.20
5½ " "	2¼ " "	.06	.41	2.75
6¼ " "	2½ " "	.07	.49	3.30
7 " "	2½ " "	.09	.55	3.85
8 " "	3½ " "	.11	.79	5.50
9 " "	3¼ " "	.15	.95	6.60

EARTHEN FLOWER POTS

These cannot be sent by Parcel Post.



Height and Width Inside	Each	Doz.	100	1000
2 inches.....	\$0.01	\$0.07	\$0.50	\$3.96
2¼ " .....	.01	.08	.56	4.45
2½ " .....	.02	.09	.69	5.45
3 " .....	.02	.11	.88	6.93
3½ " .....	.02	.14	1.06	8.41
4 " .....	.02	.18	1.38	10.89
4½ " .....	.03	.24	1.88	14.85
5 " .....	.03	.32	2.50	19.80
5½ " .....	.05	.41	3.13	24.75
6 " .....	.05	.49	3.75	29.70
6½ " .....	.07	.62	4.80	44.00
7 " .....	.08	.78	6.00	55.00
8 " .....	.11	1.09	8.40	77.00
9 " .....	.16	1.56	12.00	110.00
10 " .....	.22	2.11	16.20	148.50
11 " .....	.29	2.81	21.60	
12 " .....	.40	3.90	30.00	
14 " .....	.80	7.80	60.00	

PAPER FLOWER POTS

Ins.	Parcel Post Weight per doz.	Weight per 100	Doz.	100	1000
2¼... 3 ozs.	2 lbs.	\$0.08	\$0.35	\$3.00	
2½... 3 ozs.	2 lbs.	.10	.40	3.25	
3 ... 5 ozs.	2 lbs.	.12	.55	4.50	
3½... 7 ozs.	3 lbs.	.18	.70	6.00	
4 ... 8 ozs.	4 lbs.	.20	.95	7.50	
5 ... 15 ozs.	7 lbs.	.25	1.40	12.50	
6 ... 2 lbs.	11 lbs.	.30	1.80	17.00	

EARTHEN BULB PANS

These are fine for planting with bulbs, for ferns and other compact plants.

These cannot be sent by Parcel Post.



Diam. Inside	Each	Doz.	100
6 inches.....	\$0.07	\$0.68	\$3.75
7 " .....	.08	.78	4.80
8 " .....	.10	.98	6.00
9 " .....	.15	1.30	8.40
10 " .....	.20	1.63	10.80
12 " .....	.25	2.28	15.00
14 " .....	.50	4.55	30.00
16 " .....	.90	7.80	60.00
18 "	1.25	11.70	90.00

SEED PANS (Earthenware)

These cannot be sent Parcel Post.



Seed Pan

Inches	Each	Doz.
6	\$0.20	\$2.00
8 ....	.25	2.50
10 ....	.30	3.00
12 ....	.40	3.50

AZALEA POTS

These cannot be sent by Parcel Post.

Width	Height	Each	Doz.	100
5 in.	4½ in.	\$0.04	\$0.32	\$2.50
6 " "	5 " "	.06	.51	3.93
7 " "	6 " "	.09	.82	6.30
8 " "	7 " "	.12	1.14	8.82
9 " "	7½ " "	.16	1.56	12.00
10 " "	8 " "	.24	2.21	17.00

MICHELL'S KEYSTONE PLANT TUBS

Made of white cedar, painted green and bound with strong electric welded wire hoops, which do not rust. Handles are sold separately at 10c. per pair. Not attached to tub.

No.	Inside Diam.	Depth	Each
6.....	11 inches	10 inches	\$0.70
7.....	12 " "	11 " "	.80
8.....	13 " "	12 " "	.90
9.....	14 " "	13 " "	1.00
10.....	15 " "	14 " "	1.25
11.....	16 " "	15 " "	1.35
12.....	17 " "	16 " "	1.50
13.....	18 " "	17 " "	1.75
14.....	19 " "	18 " "	2.00

Tubs cannot be sent by Parcel Post.

**WOOD FIBRE PLANT TUBS**

Complete, with saucers.

These are very attractive for living room and conservatory.

	Green Enameled Each	Mahogany Color Each
10 inch.....	\$1.00	\$0.68
14 inch.....	2.10	1.58

These tubs cannot be mailed.

FERN DISH LINERS

These cannot be sent by Parcel Post.

Very shallow, for inside of fancy silver or porcelain ferneries.

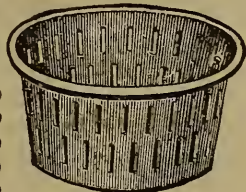
Width	Depth	Each	Doz.	100
7 in.	1½ in.	\$0.12	\$1.00	\$6.00

SQUARE ORCHID BASKETS

Wooden.			Earthen.		
	Each	Doz.		Each	Doz.
4 in.	\$0.20	\$2.25	4 in. ...	\$0.15	\$1.35
6 " ....	.25	2.75	6 " ...	.25	2.25
8 " ....	.30	3.40	7 " ...	.30	3.00
10 " ....	.35	4.10	Not mailable.		
12 " ....	.40	4.70			

ORCHID PANS

EARTHEN					
	Each	Doz.		Each	Doz.
4 in.	\$0.10	\$1.00			
5 " ....	.15	1.50			
6 " ....	.20	1.80			
8 " ....	.30	2.50			
10 " ....	.40	3.60			
12 " ....	.50	5.00			



Orchid Pan

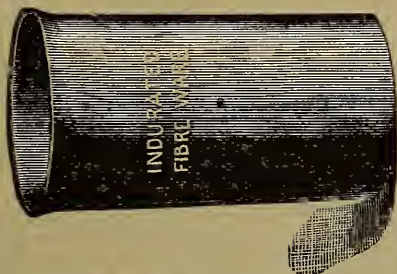
Orchid pans not mailable.

CORK FOR ORCHIDS

In large clumps, 30c. per lb.; 10 lbs., \$2.50.

ORCHID PEAT

For use in orchid pans and baskets. 30c. per peck; bushel, \$1.00; \$2.25 per bbl. bag.



WOOD FIBRE FLOWER VASES

No.	Diam.	Depth	Weight	Each	Doz.
0...8	in.	13 in.	4 lbs.	\$0.65	\$7.40
1...5½	"	10 "	2½ lbs.	.56	6.40
2...4½	"	9 "	1½ lbs.	.48	5.50
3...4	"	6 "	1½ lbs.	.41	4.60
4...3	"	4½ "	¾ lbs.	.32	3.60
00...9	"	21 "	6 lbs.	2.45	28.00
11...5	"	18 "	4 lbs.	.65	7.40
22...4½	"	15 "	2 lbs.	.56	6.40
33...4	"	12 "	2 lbs.	.48	5.50
44...3	"	9 "	1 lb.	.41	4.60

Add for Parcel Post if desired by mail.

WIRE BASKETS

Complete with Hanger.

Extra Heavy Style

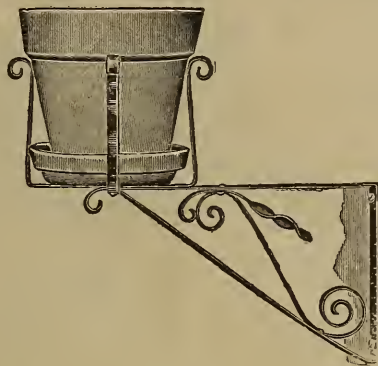
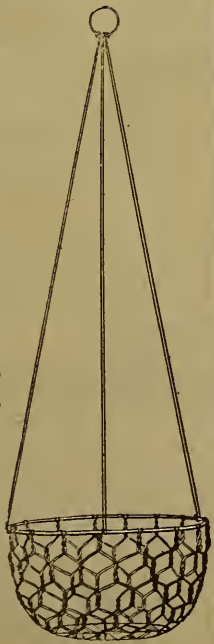
(See cut.)

These are extra well made and will last many years. Not mailable.

No.	Diam.	Each	Doz.
5....	9 in.	\$0.25	\$2.50
6....	11 "	.30	3.00
7....	14 "	.40	4.00

Light Style

	Each	Doz.
8 inch	\$0.15	\$1.50
10 inch ....	.20	2.00
12 inch ....	.25	2.50
14 inch ....	.35	3.50
16 inch ....	.45	4.50



JONES' POT BRACKET

(See cut)

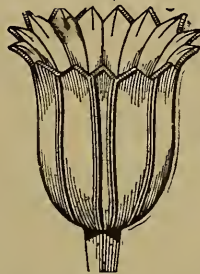
No. 1—Holds 5-inch pot. Each, 30c.; \$3.00 per doz. *Parcel Post Weight, each, 1 lb.*
 No. 2—Holds 6-inch pot. Each, 35c.; \$3.50 per doz. *Parcel Post Weight, each, 2 lbs.*
 No. 3—Holds 7-inch pot. Each, 40c.; \$4.00 per doz. *Parcel Post Wt., each, 2½ lbs.*

BRONZED POT BRACKETS

No. 8310—Single, small, 30c. each; per doz., \$3.00. *Parcel Post Weight, each, 1 lb.*
 No. 8320—Single, medium. 40c. each; per doz., \$4.00. *Parcel Post Wt., each, 2 lbs.*
 No. 8340—Double, medium. 60c. each; per doz., \$6.00. *Parcel Post Wt., 2 lbs.*

IRON VASES

For holding cut flowers on cemetery lots and graves.



Painted Green

No.	Weight	Each	Doz.
3 Small	.2 lb.	\$0.25	\$2.50
2 Med.	.2 lb.	.35	3.75
1 Large	.4 lb.	.45	4.50

Galvanized

No.	Weight	Each	Doz.
3—Small	.....2 lbs.	\$0.35	\$3.75
2—Medium	.....2 lbs.	.50	5.00
1—Large	.....4 lbs.	.65	6.75

ENAMELED CEMETERY VASES

Color rich green; made of tin and carefully enameled; will not burst in cold weather.



No. 2

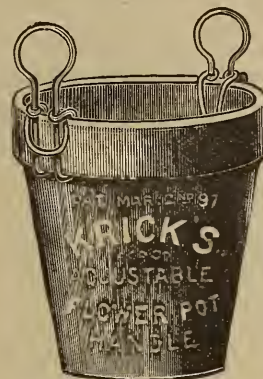
No.	Weight	Each	Doz.
1—Large	½ lb.	\$0.25	\$2.75
2—Small	..½ lb.	.20	2.00

BASKET OR CEMETERY HOOKS

Thoroughly galvanized so they cannot rust.

Single, ⅝ inch thick, 40c.
 Double, ⅞ inch thick, 80c.

These cannot be mailed.



Eureka Hanger

KRICK'S POT HANGERS

No.	For Pots	P. P. Weight	Doz.	Each	Doz.
1.	3 to 5-in.	.....1 lb.	\$0.03	\$0.30	
2.	6 and 7-in.	.....1 lb.	.04	.40	
3.	8 to 10-in.	.....1 lb.	.05	.50	

EUREKA POT HANGER

These are suitable for any size pot up to 8 inches, made of heavy galvanized wire, 15 inches long. 60c. per doz.; per 100, \$4.00. *Parcel Post weight, each, 8 ozs.*



ENGLISH GATHERING BASKET No. 1

Very convenient for carrying berry boxes, asparagus and other vegetables; made of oak; 12 in. wide, 23 in. long, 4 in. deep. Price, 60c.

GARDEN BASKETS

No.	Stiff Handle	Each	Doz.
½ Bu.		\$0.50	\$5.50
No.	Drop Handle	Each	Doz.
½ Bu.		\$0.50	\$5.50
No.	Without Handle	Each	Doz.
½ Bu.		\$0.45	\$4.75
1 Bu.		.75	8.00

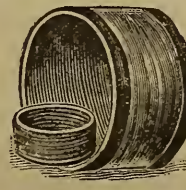


SPLINT OR CHIP BASKETS

	With Handle	Without Handle
¼ bu.	Per doz., \$0.65	\$0.60
½ bu.	" .70	.65
¾ bu.	" 1.20	1.00
1 bu.	" 1.65	1.50

BERRY BOXES

	P. P. Weight	Doz.	100	1000
1 quart	.....2 lbs.	\$0.15	\$0.75	\$5.00
1 pint	.....1 lb.	.10	.60	4.50



WOOD MEASURES

¼ Peck	.....	\$0.35
½ Peck	.....	.35
1 Peck	.....	.50
½ Bushel	.....	.75
1 Bushel	.....	1.25

All prices subject to Market Changes

(ha)

Michell's Preparations of Special Merit for the Gardener

"READEANA"

ROSE BUG EXTERMINATOR

Will protect your flowers and shrubbery from destructive insects. It is impossible to raise beautiful flowers or foliage if they are constantly being destroyed by the many insects that are ever alert to destroy them.

An occasional spraying with "Readeana" will destroy all insect life present and prevent their return for some time after. To destroy the insects is one thing, but to do it without injuring the flowers or foliage is quite another. "Readeana" is absolutely harmless to the most delicate flowers or foliage. It may be diluted heavily with water, according to directions on each container, and applied with spraying apparatus of any kind.

4 ounce bottle	\$0.25	1 gallon can	\$4.00
8 ounce bottle .....	.50	5 gallon can	17.50
24 ounce can	1.00	10 gallon can	35.00
1/2 gallon can	2.25		

Readeana is not mailable.



Method of applying Electric Worm Eradicator

"HERBICIDE"

THE WEED EXTERMINATOR

A concentrated chemical in liquid form, which when applied to the ground, after diluting with forty times its volume of water, destroys both tops and roots of weeds of every kind in paths, gutters and tennis courts.

The endless task of pulling weeds is only too well known by all owners of country and suburban homes, also cemetery, city and park officials. "Herbicide" saves many times its cost in saving of labor, due to the more permanent results secured than where the old hand method is used.

It Kills
Erado
WEEDS



Fig 1.



Method of application for "Readeana"

ELECTRIC WORM ERADICATOR

ARE THE ROOTS OF YOUR PLANTS BEING DESTROYED?

Much damage is often done to trees, plants, flowers, vegetables, etc., and the true source of trouble never known, for it is being wrought in the ground at the roots.

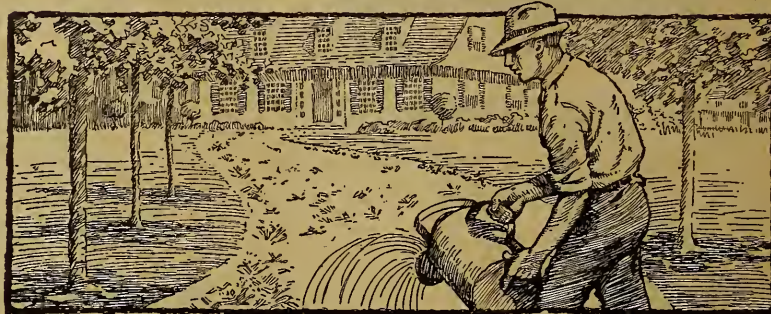
"Electric" Worm Eradicator is effective for the destruction of such pests. Used in a very small proportion, according to directions, with water and applied to the ground with a sprinkling can or otherwise, it brings all worms or insects that work underground to the surface, where they die.

While it is essential that the tops be protected, it is equally important that the roots be kept clear of destructive pests.

Caution.—Don't use Electric Worm Eradicator on seed beds sown with seed that has not germinated or while plants are in a seedling stage.

4 ounce bottle	\$0.25	1 gallon bottle	\$4.00
8 ounce bottle .....	.50	5 gallon keg	17.50
24 ounce bottle	1.00	10 gallon keg	35.00

(Electric Worm Eradicator is not mailable.)



Method of applying Herbicide

PRICE OF HERBICIDE

1 quart can	\$0.50	5 gallon can	\$5.50
1/2 gallon can .....	.80	10 gallon can	10.00
1 gallon can	1.50	25 gallon cask	21.50
2 gallon can	2.75	50 gallon barrel	35.00

Herbicide is not mailable.

CUT WORM DESTROYER

The Cut Worm is considered the most destructive and hardy of the many pests that gardeners and farmers have to contend with.

Cut Worm Destroyer is in powder form and has to be applied in small quantity around the stem of each plant, the cut worm eating it in preference to the stems of the Plants. It is made of materials that attract the cut worms, and when they taste it they die.

1 pound	\$0.25	25 pounds	\$2.50
5 pounds .....	.80	100 pounds	7.50
10 pounds	1.25		

If Cut Worm Destroyer is wanted by mail allow for postage.

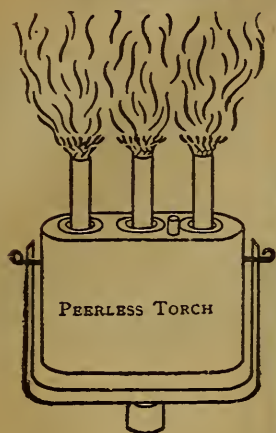
ERADO WEED GUN (See Fig 1)

DON'T CONTINUE PULLING WEEDS DESTROY THE ROOTS AND THE TOPS CANNOT RE-APPEAR

By the use of the apparatus "Herbicide" may be used safely and effectively on lawns for removing dandelions, burdock, and other weeds that ruin a lawn.

This device is as handy as a cane, which it resembles; a reservoir, which holds about 2 quarts of liquid, is filled with Herbicide diluted and used for destroying weeds of all kinds in lawns without hurting the grass. It is 33 inches long and can be used very conveniently. The idea being to fill the reservoir and press the sharp point of the gun into the heart of the weed until the flat stay pieces touch the ground, when a quantity sufficient to kill the weed treated is discharged into the heart of the weed which is destroyed for all time. The use of this apparatus provides healthy pastime for the suburbanite, who otherwise does not care for garden work. Price, \$1.50 All brass. Parcel Post Weight, 2 lbs.

MICHELL'S SPRAYING AND INSECTICIDE APPARATUS, Etc. 227



PEERLESS TORCH



Asbestos Torch



OIL TORCHES

For burning out worms, caterpillars and nests that infest trees.

P. P. Weight	
Peerless. 1 lb.....	\$0.50
Reservoir. 1/2 lb.....	.25
Asbestos. 1 lb.....	.40

Reservoir Torch

POLES FOR TORCHES, Etc.

Hickory wood. 12 feet, 60c.; 14 feet, heavy, 85c.; 16 feet, \$1.25. Poles are not mailable.

Bamboo Poles. 18 ft., very strong, used extensively for brushing worm casts off putting greens, etc. Each, 25c.; doz., \$2.50; 100, \$15.00.



AUTOMATIC COMPRESSED AIR SPRAYER

Parcel Post Weight, 2 lbs.

This is the grandest hand sprayer ever offered, very easily operated, especially desirable for ladies' use.

Tin.....each, \$1.00 | Brass....each, \$2.00



CYCLONE HAND SPRAYERS

Similar to the above except they do not have the automatic air reservoir attachment. P. P. weight, 1 1/2 lbs.

No. 112, Tin, large, 50c.; Tin, small, 25c.; No. 114, Brass, \$1.00.

PARCEL POST SHIPMENTS

Where goods can be shipped in this manner, we have affixed the packed weight opposite. Where remittance accompanies order please include sufficient to cover mailing charges. Consult your post office for proper amounts.



SULPHUR BLOWER

For distributing sulphur and insecticides of various kinds. Price, \$4.50.

FUMIGATORS

Perfection Make

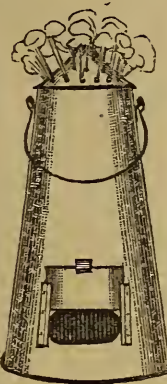
Fitted with a water tank to prevent burning out.

No.			
1	for house	12x 40 ft.	\$3.00
2	"	15x100 ft.	3.50
3	"	20x100 ft.	4.00
5	"	20x150 ft.	5.50

Eureka Make

No.			
1	for house	10x 20 ft.	\$1.25
2	"	12x 40 ft.	1.75
3	"	15x100 ft.	2.25
4	"	20x100 ft.	3.25

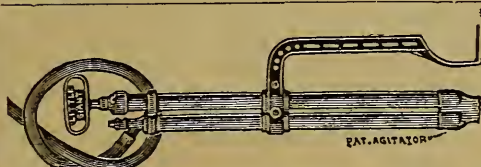
Fumigators cannot be mailed.



Eureka

VAPORIZING LAMP

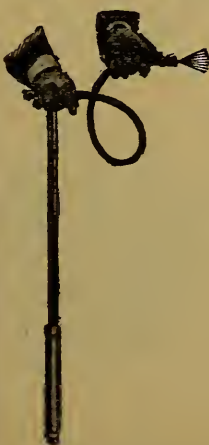
Practical and indestructible, all metal, burns kerosene, used for dispensing fumes of Nicotinic, Tobakine and other preparations of this sort. 50c. each. P. P. weight, 3/4 lb.



No. 327 1/2 MYER'S BUCKET PUMP

This is a double brass chamber arrangement, and fills the want of those desiring a medium priced sprayer. Price, \$3.00. P. P. weight, 9 lbs.

JUNIOR SPRAY PUMP

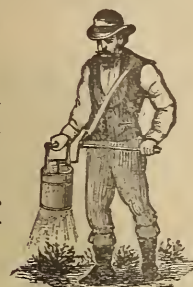


No. 5—For bucket use; the pump works on a spring device, making compression which discharges the liquid. The most practical bucket pump for one person to use. All brass and excellent value. Just the thing for the man with a small fruit garden, a few greenhouses, or a hen house that needs spraying. Complete with hose and nozzle. Price, \$3.00.

PARIS GREEN SHAKERS

Tin. For dusting vegetables, potatoes, small fruits and shrubbery, 50c. each. P. P. weight, 2 lbs.

Farmer's Favorite. (See cut.) Large double-action affair, \$1.25 each. P. P. weight, 4 lbs.



DICKEY DUSTER

Excellent for distributing Bug Death, Slug Shot, etc. Price, 25c.; P. P. weight, 1 lb. "Acre an Hour" Sifter, 75c. P. P. Weight, 2 lbs.

CHAMPION GUN

This machine will distribute dry insecticides, covering one or two rows at one time. Will save its price in material used in one season.

Price, \$8.00
P. P. Wt., 8 lbs.

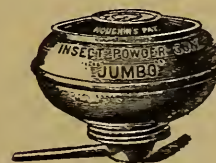


WOODASON HAND BELLOWS

P. P. Weight

Large double cone, each.....	5 lbs.,	\$3.00
Large single cone, each.....	3 lbs.,	2.00
Small single cone, each.....	2 lbs.,	1.10
Liquid spraying, small	3 lbs.,	1.50
Liquid spraying, large	4 lbs.,	2.00
Sulphur Bellows, each.....	1.50	

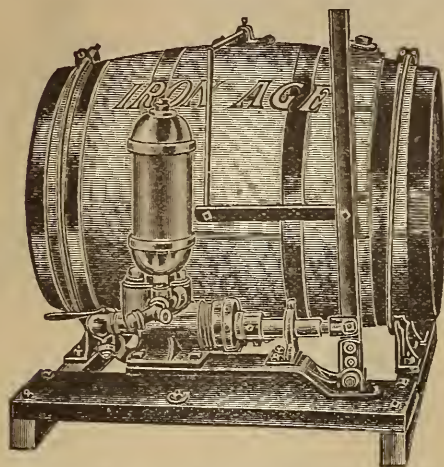
WHIRLWIND POWDER GUNS



Very useful for distributing dry powder. Price, 15c.

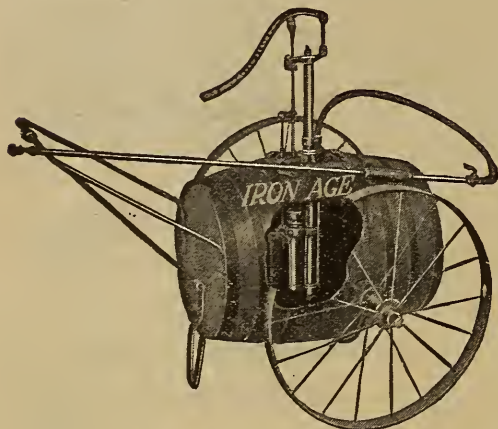
P. P. Wt., 8 ozs.

Our Garden Tool Department we believe to be the most fully equipped of any seed store in the United States. Most every tool of real merit for garden work will be found here, and of the best quality.

**IRON AGE SPRAYER NO. 1901**

This is an ideal equipment to mount on a flat wagon, cart or sled. It is complete in every detail. Equipped with a 50-gal. barrel, large air chamber with a pressure capacity of 125 lbs., automatic agitator, brass bronze ball valves, woven hemp packing, which is easily replaced. No leather or rubber to give trouble. All working parts of the pump are outside, can be gotten at easily.

Price, no hose or nozzle, \$20.00; with 15 ft. $\frac{1}{2}$ -in. hose, 1 nozzle, \$23.00; equipped with 2 15-ft. lengths of $\frac{1}{2}$ -in. hose, 2 nozzles, \$26.75.

**IRON AGE SPRAYER NO. 197**

A perfect outfit for gardens, small farms, poultry, plants, etc.; capacity, 20 gals. Pump all brass with a 6-inch stroke, large air chamber with a 100-lb. pressure capacity; bronze brass ball valves of easy access. Equipped with a perfect agitator, 4 feet of extension rod with hand grip and 4 feet of $\frac{1}{2}$ in. hose, stop cock and nozzle. \$16.50.

EXTENSION PIPES, Etc.

For reaching into trees, $\frac{3}{8}$ -inch threads.

Bamboo, with brass tube, 8 ft. \$2.00
" " " " 10 ft. 2.50

Galv. Iron, 2 ft., P. P. weight, 6 ozs. . . 30
Brass, 2 ft., P. P. weight, 8 ozs. 45

Pet Cock, for extension pipes. 50
Iron Age. Fig. 419—Steel pipe 10 ft.

long, with an angle connection, stop cock, 2 hand grips and drip guard, for $\frac{1}{2}$ -in. thread. Price, \$2.90.

Iron Age. Fig. 420—Bamboo casing with brass pipe inside, with angle connection, stop cock, 2 hand grips and drip guard, 10 ft. long for $\frac{1}{2}$ in. thread. Price, \$4.00.

Paragon Extensions, 2 $\frac{1}{2}$ ft., 30c. each. Parcel post weight, 12 ozs.

**IRON AGE
SPRAYER
NO. 194**

For the small orchard, farm or garden, can be attached instantly to any barrel. The pump and all working parts except agitator and suction pipe are on the outside. The latter is equipped with a bronze ball valve, which adds to its power and efficiency; packing, woven hemp, easily replaced. A pressure of 125 pounds can be maintained.

Price, without barrel hose or nozzle, \$10.00. Price, with 15 ft. $\frac{1}{2}$ -in. hose, nozzle, no barrel, \$14.50. Price, with barrel, 15 ft. $\frac{1}{2}$ -in. hose and nozzle, \$18.25.

NO. 194 T. I. A. SPRAYER

The equipment above with a 2 $\frac{1}{2}$ -in. iron tire wheel-truck and barrel, without hose or nozzle, \$22.75, or \$26.25 with 15 ft. hose and nozzle.

IRON AGE SPRAYER NO. 195

This is really a duplicate of pump No. 197, described in the opposite column, except that it is adapted or equipped for bucket use. The pump is securely fastened to a cedar bucket of 16 qts. capacity, nicely painted. The equipment can be picked up and easily moved from place to place. Equipped with a 2-ft. extension rod, a Vermorel nozzle with an extra solid stream cap and 4 ft. $\frac{1}{2}$ -in. hose. Price, \$8.00.

**LEWIS' SHEET BRASS SYRINGE**

Capacity about 1 quart, \$1.75.

Parcel post weight, 2 $\frac{1}{2}$ lbs.

HEAVY BRASS SYRINGES

Will last many years with a little care.

No.	Diam.	Length	Parcel Post Weight	Price
99	1 $\frac{1}{2}$ "	18"	1 spray.....1 $\frac{3}{4}$ lbs.	\$2.50
101	1 $\frac{1}{4}$ "	14"	2 sprays.....2 lbs.	2.00
101	1 $\frac{1}{2}$ "	16"	2 sprays.....2 $\frac{1}{4}$ lbs.	3.25
104	1 $\frac{3}{4}$ "	18"	2 sprays.....4 $\frac{1}{2}$ lbs.	5.50
107	1 $\frac{3}{4}$ "	20"	(Adjustable) 5 lbs.	5.00

SPRAY NOZZLES ($\frac{3}{8}$ in. thread)

Bordeaux and Vermorel, 8 ozs.....	\$0.75
Mistry, Jr., 5 ozs.....	.90
Winkle Mist, 4 ozs.....	.75
Paragon style, 4 ozs.....	.35
Duplex Vermorel (2 nozzles), 14 ozs..	1.50
Triple Vermorel (3 nozzles), 16 ozs..	2.25
Quadruple Vermorel (4 nozzles), 2 lbs.	2.50
Duplex Mistry (2 nozzles), 2 lbs.....	3.00

For $\frac{3}{4}$ -in. connections add 25c. to the above nozzle prices.

SIMPLEX PUMP NO. 550**Simplex Pump**

One of Deming's very best sprayers. Fitted with brass cylinders. Equipped with an automatic agitator. Will throw a stream 40 feet. Plain Pump, no hose, nozzle or barrel. \$7.50.

Outfit A—Pump, with 12 $\frac{1}{2}$ ft. $\frac{1}{2}$ -in. hose, fitted with a Bordeaux or Vermorel nozzle and pole connection for reaching into trees, no barrel. \$10.65.

Outfit B—Pump, with two 12 $\frac{1}{2}$ -foot sections of $\frac{1}{2}$ -in. hose, two Bordeaux or Vermorel nozzles, pole connection, no barrel. Price, \$13.80.

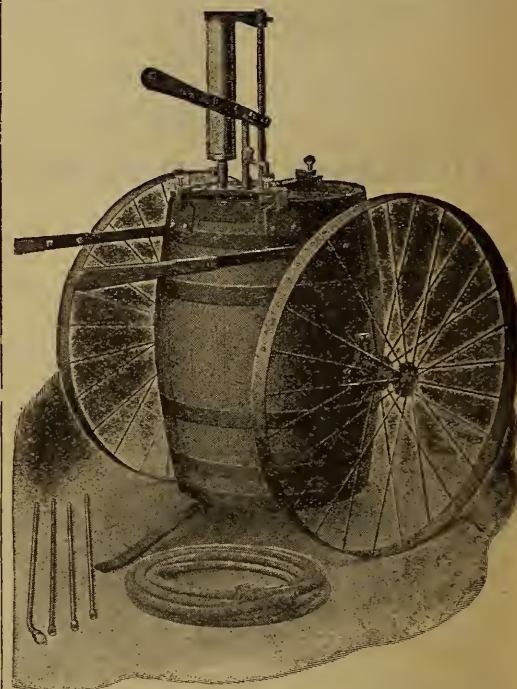
CENTURY PUMP NO. 645

A very powerful pump; working parts are entirely of brass; has large air chamber; also a perfect agitator and a long fulcrum link, which enables the operator to work the pump with little effort.

Price for pump, no barrel or hose, \$10.50.

Price, complete, with 12 $\frac{1}{2}$ -ft. $\frac{1}{2}$ -in. hose and nozzle, no barrel, \$13.65. Price, with two 12 $\frac{1}{2}$ -ft. leads, hose and nozzles, no barrel, \$16.80.

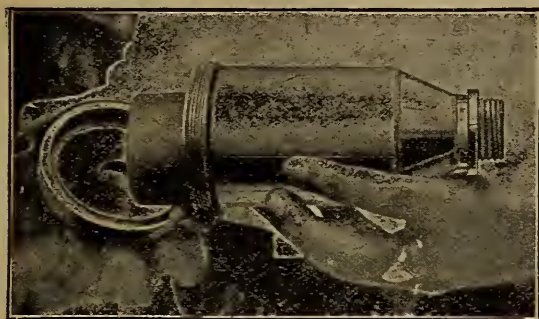
Barrels, with cut head, \$3.50

**NO. 4 PARAGON SPRAYER**

Designed for spraying whitewash and water paints in poultry houses and buildings, also for spraying trees and shrubbery. Equipped with 10 feet of extension pipe, 20 feet 6-ply hose and 2 spraying nozzles. Price, complete as in cut, \$22.50, or with 28 gal. barrel, but no truck, \$17.00.

All Iron Age Sprayers, with Hose and Nozzles, are equipped with Nozzle Strainers

MICHELL'S RELIABLE SPRAYING APPARATUS ²²⁹



THE KIRKE FEEDER

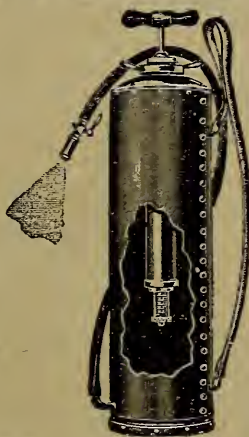
Made to accommodate cartridges of various kinds, containing fertilizer and insecticide ingredients, each separate. See page 218 for full directions.

Nickel Cartridge Holder. \$3.00 each.

Plant Food Fertilizer Cart=	Each	Doz.
ridges	\$0.30	\$3.00
Arsenate of Lead Cartridges. ....	.40	4.50
Tobacco Cartridges .....	.30	3.00
Fertilizer Cartridges .....	.30	3.00
Bordeaux Cartridges .....	.30	3.00

NO. 22 BINKS COMPRESSED AIR SPRAYER

Galvanized steel tank, 5 gallons capacity. Brass pump with a patent clamping device, equipped with 3 feet of hose, spray nozzle, shut off cock and shoulder strap. It is claimed that this is the only compressed air sprayer that will discharge the entire contents with one pumping. P. P. Wt., 15 lbs. Price, \$6.25.



DEMING KNAPSACK SPRAYERS

These are elegant for carrying around the garden, among shrubbery and tree work, etc.

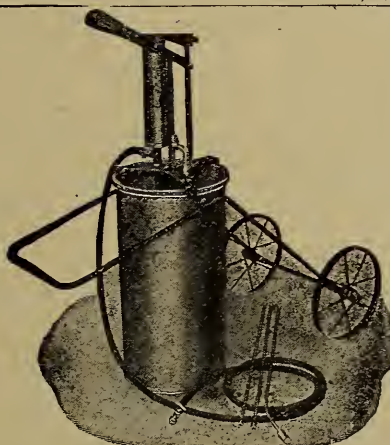
Fig. 675. Copper tank, holding about 5 gals., complete, with pump, nozzle and hose.....\$13.50
Fig. 654. Galvanized tank, holding about 5 gal., complete, with pump, nozzle and hose..... 9.00

Deming Knapsack Sprayers are not mailable.



No. 651 GARDENER'S CHOICE SPRAY OUTFIT

Here is an equipment that is easily worth \$5.00 more than we ask for it; truly it is the greatest value in spray pumps we have; the reservoir holds 25 gals.; the pump has brass cylinder, and it is a complete equipment with hose and nozzle. Price, \$16.00.



No. 3 Paragon Sprayer

THE PARAGON SPRAYER

Especially desirable for the reason that it is not necessary to strain the material before pouring it into the reservoir, although we recommend that this be done; guaranteed to give absolute satisfaction. Excellent for applying whitewash or paint.

Bucket Washers for Paragon Sprayers, 20c.

No. 0—Equipped with a 3-gal. reservoir, 4 ft. of hose, nozzle and extension pipes, Price, \$7.50.

No. 1—With a 5-gal. reservoir, 5 ft. of hose and 2 extension pipes, \$10.00.

No. 3—Equipped with a 12-gal. tank mounted on a truck, three 2½-ft. extension pipes, 2 nozzles and 10 ft. of hose, \$15.00.

No. 4—(see next page)—Mounted on a two-wheel truck; equipped with 10 ft. of extension pipe, 20 ft. of hose, and 2 nozzles. Complete, \$22.50.

Paragon sprayers are not mailable.



COPPER STRAINER

For straining white-wash, spraying material, etc. \$1.00 each. P. P. Wt., ¾ lb.

KANT KLOG SPRAYERS

Brass P. P. Wt., 9 lbs., \$6.50
Galvanized Steel .. P. P. Wt., 9 lbs., 5.00



Success Pump

BUCKET SPRAY PUMPS

These are made entirely of brass except the foot rest, bucket fastener and hand grip. The prices below do not include bucket, but include nozzle and 3½ feet of ¾ in. hose.

No. 256. Success (without bucket fastener) \$4.10 P. P. Wt., 7 lbs.

No. 689. Perfect Success (with bucket fastener), \$4.60 P. P. Wt., 9 lbs.

THE AUTO SPRAY



Auto Spray in operation

It operates with compressed air; safe and efficient; liquid capacity, 4 gallons; pressure capacity, 40 lbs. The Brown Auto - Spray is probably the first real successful Compressed Air Sprayer ever put on the market. Previous to its introduction there were other makes, some of them still being offered for sale. We have had a wide and varied experience with the different ones, and after personal tests and noting the experiences of our customers, finally adopted as our standard compressed air sprayer this make. No sprayer is sold under broader guarantee for efficiency and durability. The Auto-Spray must please and will accomplish all that any first-class sprayer will or the purchase price will be refunded. They will successfully spray bushes, shrubbery and trees, the latter with the use of extension pipes. The brass tank sprayer is the best, as corrosive solutions can be used in it without injuring the same. Auto-Sprayers are not mailable.

No. 1-A Brass equipped with hose and regular nozzle, \$7.25.
No. 1-B Brass equipped with hose and Auto-Pop Attachment, \$7.75.
No. 1-C Galvanized Iron equipped with hose and regular nozzle, \$5.00.
No. 1-D Galvanized Iron equipped with hose and Auto-Pop, \$5.50.

Auto-Pop Nozzle Attachment controls the flow instantly by a pressure of the hand. When Auto-Pop Attachment is purchased separately, \$1.50 each. P. P. weight, 1 lb.

230 Michell's Insect and Vermin Destroying Preparations

Ant Exterminator (Magic). A powder that is used for distributing around buildings, on the greenhouse benches, on lawns, gardens, and any other places infested by ants. Per ¼ lb., 20c.; per ½ lb., 40c.; 75c. per lb.; 5 lbs., \$3.00.

Ant Exterminator (Conellans). In liquid form, designed especially for use on lawns, tennis courts and putting greens; positively effectual. Apply with special squirt gun. 1 gal., \$1.25; \$6.00 for 5 gals. *Special Squirt Gun* for applying, \$1.25 each; (by Parcel Post, \$1.35).

Anti-Pest (Carmen's). For destroying red spider, scale and green fly. 50c. qt.; ½ gal., 75c.; \$1.40 per gal.; 5 gals., \$5.75.

Aphine. For destroying aphids, green fly, thrip, red spider and other greenhouse and outdoor insects. It dilutes readily in water about 1 part to 40 of the latter. ¼ pt., 25c.; 40c. per ½ pt.; pt., 65c.; \$1.00 per qt.; per gal., \$2.50.

Aphis Punk. A paper that has been thoroughly saturated with nicotine. Used for fumigating, giving off dense fumes of nicotine. Excellent for aphids, thrip, white and green fly, also red spider. (For use in greenhouses only.) Per pkg., 60c.; \$6.50 per 12 pkgs.

Arsenate of Lead. For spraying trees and shrubs against the attacks of leaf-biting insects of all kinds, especially valuable for spraying to prevent the codling moth. It comes in paste form, and dilutes 1 lb. to 25 gals. water. Per lb., 25c.; 80c. per 5 lbs.; per 10 lbs., \$1.50; \$3.00 per 25 lbs.; \$5.50 per 50 lbs.; per 100 lbs., \$10.00.

Arsenate of Lead (Powdered). 1 lb. dilutes to 50 gals. of water. 35c. per lb.; 5 lbs., \$1.50; \$2.75 per 10 lbs.; 25 lbs., \$6.00; \$10.50 per 50 lbs.; 100 lbs., \$20.00.

Black Leaf 40. A concentrated solution of nicotine Sulphate, an excellent spray for black aphids and sucking insects of all kinds; dilutes 1 part to 900 or 1000 parts of water, according to treatment. Full directions on each package. 1 oz., 25c.; ½ lb., 75c.; \$2.50 per 2 lbs.; 10 lbs., \$10.75.

Bordeaux-Arsenate. This is a combination of Arsenate of Lead and Bordeaux Mixture, in nature like Pyrox. Its use combines an application of Fungicide and Insecticide at one time. A pound dissolves with 5 gallons of water. It sticks to the foliage and will not wash off for a long period. 1 lb., 20c.; 80c. per 5 lbs.; 10 lbs., \$1.40; \$3.25 per 25 lbs.; 50 lbs., \$5.50; \$10.00 per 100 lbs.

Bordeaux Mixture. Used principally for mildew, blight and fungous diseases that affect potatoes and fruit trees. *Paste Form:* 1 qt., 40c.; \$1.00 per gal.; 5 gals., \$4.50. One gallon makes 50 gallons material. *Dry Form:* 1 lb., 20c.; 5 lb. pkg. (makes 30 gals.), 70c.; \$1.00 per 10-lb. pkg. (makes 50 gals.).

Boro-Wax. For painting trees to destroy and keep away borers. 35c. per qt.; ½ gal., 60c.; per gal., \$1.00; \$5.00 for 6 gallons.

Bug Death. Largely used instead of Paris Green. It is claimed to have the same effect. The manufacturers say that it acts as a fertilizer as well as an insecticide. It comes in powder form, and is applied pure. Not poisonous to persons. Per lb., 15c.; 35c. per 3 lbs.; 5 lbs., 50c.; per 12½ lbs., \$1.00; \$7.50 per 100 lbs. (Special Shaker for Bug Death, 25c.)

Cal-Arsenate (Powdered). This is also termed Arsenate of Lime, supposed to be an improvement on the powdered forms of Arsenate of Lead; is used for the same purposes as the latter, but is claimed to be 50 per cent. stronger. Dilutes 1 to 1½ lbs. to 50 gals. water, or can be used dry. 1 lb., 30c.; \$1.25 for 5 lbs.; 10 lbs., \$2.25; \$4.25 for 25 lbs.

Copper Solution. Made of sulphate of copper and other materials. Excellent spray for carnation rust and diseases of the grape, pear, apple, and other fruits. A good thing to use for leaf blight and mildew. It is diluted in water. Per qt., 60c.; \$1.75 per gallon.

Cut Worm Destroyer (Reade's). For killing cut worms, grubs and maggots that work in the soil. 1 lb., 25c.; 5 lbs., 80c.; 10 lbs., \$1.25; \$2.50 for 25 lbs.; 100 lbs., \$7.50.

Cyanide of Potassium. For fumigating. 25c. ¼ lb.; lb., 50c.

Dalmatian or Persian Powder. For ridding buildings of all kinds of various insect pests. Particularly for the smaller and creeping kinds, as it is not strong enough to destroy large or harder insects. 20c. per ¼ lb.; 1 lb., 60c.; \$2.75 per 5 lbs.

Death to Lice (Lambert's). For plant lice, adhesive to foliage. 5 oz., 10c.; 25c. for 15 oz.

Fir Tree Oil Soap. This is very much like the Fir Tree Oil, except that it is in the shape of soft soap, and many prefer to use it in that way. It is dissolved according to directions in warm or hot water and used as a spray or wash. Per ½ lb., 25c.; 75c. per 2-lb. can.

Fish Oil Soap. For mild forms of Scale, and is an excellent summer spray, when something stronger cannot be used, where the San Jose Scale exists. It is nice for washing off Lemon trees, Oleanders, and almost anything that would be infested with a soft-shelled or in fact most any kind of insect. Dissolved in water according to various purposes. Per ½ lb., 10c.; 20c. per lb.; per 5 lbs., 60c.; \$1.10 per 10 lbs.; per 25 lbs., \$2.00; \$6.50 per 100 lbs.

Fish Oil Soap (Good's Caustic). Used extensively as a tree spray and as a summer remedy for San Jose Scale, it comes in a soft soap form and is easily dissolved, 1 lb. to 10 gals. water. 20c. per 1-lb. can; 5-lb. can, 80c.; \$3.00 per 25-lb. can; 50 lbs., \$4.25; \$8.00 per 100 lbs. Barrel lots of about 425 lbs., at 6½c. lb.

Fungine. An excellent remedy for fungous diseases of all kinds. 75c. per qt.; per gal., \$2.00.

Getz There Soap. Ideal for washing palms and spraying in place of Whale Oil Soap. 2 lbs., 40c.; \$1.00 for 8 lbs.; 25 lbs., \$2.50.

Grape Dust. A powder preparation used for mildew, aphids, black fly, and other insects and fungous diseases, principally in greenhouse. Per 5 lbs., 40c.; 75c., per 10 lbs.; per 25 lbs., \$1.75; \$6.00 per 100 lbs.

Hellebore. The ideal material for destroying rose bugs, currant worms, and other soft-shelled insects that infest the garden. It can be applied dry or in liquid form. Per ¼ lb., 10c.; 15c. per ½ lb.; per lb., 25c.; \$1.15 per 5 lbs.; per 10 lbs., \$2.10.

I X L Compound. English preparation for spraying; harmless to very delicate plants. Kills mealy bug, red spider and all insect pests. \$3.50 per gallon.

Hydrocyanic-Acid Gas (Fumigation with Cyanide Potassium) Poison. As given to us by a practical gardener. Put four ounces of water in a galvanized iron pail, add to this 2 oz. of Sulphuric Acid, wrap an ounce of Cyanide of Potassium in paper and place it in the bucket, which should be placed near the door of the greenhouse to afford quick exit. The above charge is sufficient for 1000 cubic feet of space. Don't open the greenhouse for at least 12 hours. One of the ventilating sash should be arranged so it can be opened from the outside to allow the fumes to escape entirely before entering. This is claimed to be the only and best remedy to absolutely kill the white fly. **Cyanide of Potassium (Poison),** per ¼ lb., 25c.; 50c. per lb. **Sulphuric Acid,** lb., 30c.

Kerosene Emulsion (Liquid). Diluted in water this makes an excellent spray for all mild forms of scale, and soft lice of any kind such as infest rose and fruit bushes, vegetables and trees. Dilutes 1 part to 20 parts of water. Per pt., 20c.; qt., 35c.; \$1.00 gal.; 5 gals., \$4.50; \$8.00 for 10 gals.

Kil-o-Scale. Destroys and prevents the spread of scale insects of all kinds. Its chief use is the destruction of the San Jose Scale, which prevails in all parts of this country. It is diluted, one part Kil-o-Scale to twenty parts water. Per pt., 30c.; 50c. per qt.; per ½ gal., 75c.; per gal., \$1.25; \$5.00 per 5 gals.; per 25 gals., \$21.25; per 50 gals., \$42.50.

Lemon Oil Co's Insecticide. The best and cheapest insecticide in the market. Used by nearly all the leading growers. It effectually destroys mealy bug, scale, thrip and red spider. Half pt., 25c.; pt., 40c.; qt., 75c.; half gal., \$1.25; gal., \$2.00; 5-gal. kegs, \$9.00; 10-gal. kegs, \$17.50.

Lime Sulphur. For destroying San Jose Scale. This is a concentrated form which is diluted 1 gal. to 12 or 15 gals. water, either hot or cold. May be used as a summer or winter spray, excellent to use as a fungicide. 25c. qt.; ½ gal., 45c.; 75c. gal.; 5 gals., \$2.25; \$3.75 for 10 gals.; 25 gals., \$6.00; \$9.00 per 50 gals.

Lime Sulphur (Modoc Brand. Dry Powder Form). Powdered Lime Sulphur is becoming very popular on account of the small expense for shipping. It is instantly soluble in either cold or hot water, dilute 1 lb. to 6 gals. of water; does not separate, keeps indefinitely. Lb., 25c.; \$1.00 for 5 lbs.; 10 lbs., \$1.50; \$3.00 for 25 lbs.; 50 lbs., \$4.50; \$6.50 per 100 lbs.



CARBONDALE HYDROMETERS

These are highly recommended by the Pennsylvania State Department of Agriculture for testing the gravity of Lime Sulphur solution; one should be in the hands of every man who uses this material. Price, \$1.00. (Postpaid, \$1.10.) With directions.

Michell's Insect and Vermin Destroying Preparations 231

Nicoticide. Used as a spray or as a vapor, principally in the latter way, it is placed in a tin saucer with lamp underneath, and the nicotine fumes are thus distributed. It is very effective in destroying thrip, aphid, white fly, and red spider, etc. 1 oz. bottles, 25c. each; 2 oz. bottles, 50c. each; per ¼ pt., 70c.; per ½ pt., \$1.25; per pt., \$2.50; per qt., \$4.50; \$8.25 per ½ gal.; 1 gal., \$15.00. (Lamps for Nicoticide, 50c. each.)

Nicotinana. A nicotine solution for spraying and vaporizing. \$1.50 per qt.; per gal., \$4.50.

Nicotine Cones (See Vapor Cones).

Nico-Fume (Liquid). This is used in very much the same way as Nicoticide. Per ¼ lb. (about ¼ pt.), 50c.; \$1.50 per lb. (about 1 pt.); 4 lbs. (about ½ gal.), \$5.50; \$10.50, 8 lbs.

Nico-Fume. This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. Preferred by many who do not wish to spray or vaporize. Per box, 24 sheets, 85c.; per 144 sheets, \$4.00; per 288 sheets, \$7.50.

Nikoteen. One of the very best forms of tobacco or nicotine preparations, usually diluted in water, makes a most satisfactory spray as well as vapor, excellent for pea lice in the garden. ½ oz., 15c.; 40c. for 1¾ oz.; 8 oz., 85c.; \$1.50 per pt.; gal., \$10.00.

Paris Green. The chief merit of this article is the destruction of the potato bug. It may be used in liquid form, 1 pound in 50 gallons of water, or with Land Plaster at the rate of 1 pound Paris Green to 100 pounds Land Plaster. 10c. per ¼ lb.; per ½ lb., 15c.; 30c. per lb.; \$1.20 per 5 lbs.; per 14 lbs., \$3.00.

Pyrox (Bowker's). A pasty substance used for all leaf-biting insects. It is really a Bordeaux and Arsenate of Lead combined and is excellent. Dilute 1 lb. to 5 gals. water. 25c. per lb.; 5 lbs., \$1.00; \$1.75 per 10 lbs.; 25 lbs., \$4.00; 50 lbs., \$7.50; \$13.50 per 100 lbs.; 300 lbs., \$38.00; \$60.00 per 500 lbs.

Rat Corn. For destroying rats and mice in greenhouses, hotbeds, etc. 15c., 25c., 50c. and \$1.00 per box.

Rax. Destroys rats and mice without injury to other animals; it mummifies them. 50c. per bottle.

Readeana Rose Bug Exterminator. Used for destroying rose bugs, green fly, mealy bug, blight, mildew, etc. 4-oz. bottle, 25c.; 8-oz. bottle, 50c.; \$1.00 per 24-oz. can; per gal., \$4.00.

Sulphocide. A summer spray against fungous diseases, one of the best preparations of its kind. 50c. pt.; qt., 75c.; \$2.00 per gal.

Scalecide. Used for the destruction of the San Jose Scale. Dilute at the rate of one gallon Scalecide to 20 gallons water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. 45c. per qt.; per gal., \$1.00; \$3.25 per 5 gals.; 10 gals., \$6.00; \$16.00 per 30-gal. bbl.; per 30-gal. jacketed tin, \$15.00; \$25.00 per 50-gal. bbl.

Scale Destroyer. For San Jose Scale, 1 gal. dilutes to 20 gals. water. Per qt., 35c.; 65c. per ½ gal.; per gal., \$1.00; \$3.75 per 5 gals.; 10 gals., \$7.50; 25-gal. bbl., \$13.00; per 50-gal. bbl., \$25.00.

Shoo Fly. For keeping flies off cattle and horses, used with a spray or a sponge, the cattle and horses are either sprayed or rubbed with the preparation in the morning before being put in the field or out to their day's work. Per qt., 35c.; \$1.00 per gal.; 5 gals., \$4.50.

Slug Shot. The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the vegetable or flower garden. 15c. per canister; per 5 lbs., 30c.; 60c. per 10 lbs.; 25 lbs., \$1.50; \$2.75 per 50 lbs.; 100 lbs., \$5.25. Full bbl. lots (about 250 lbs.), 4½c. per lb., f. o. b. Factory; 5c. per lb., f. o. b. Phila.

Sulphate of Copper. For destroying fungous diseases of all kinds, also used in making Bordeaux mixture, and for spraying potato vines in connection with Paris Green. Where used as a Bordeaux mixture it requires four pounds Sulphate of Copper to 6 pounds Lime, which is diluted in 50 gallons of water. Per lb., 15c.; \$1.25 per 10 lbs.; 25 lbs., \$2.75; \$10.00 per 100 lbs.

Sulphur. Used principally in greenhouses for checking mildew. It is also used as a preventive and cure for San Jose Scale when it is used in connection with lime and salt. Per lb., 10c.; 30c. per 5 lbs.; 25 lbs., \$1.25; \$4.00 per 100 lbs.

Sulphur Candles. For fumigating in sick-rooms, also in conservatories and greenhouses. Large, 20c. each; per doz., \$2.00; small, 10c. each; per doz., \$1.00.

Thrip Juice (Hammond's No. 2). This preparation is very effective against aphid, red spider, mealy bugs and sucking insects generally. 60c. pt.; qt., \$1.00; \$3.25 per gal.

Thymo Cresol (Sheep Dip). This preparation is used for disinfecting, etc.; it is also an excellent cold water sheep dip. Per 4-oz. bottle, 25c.; 40c. per 8-oz. bottle; per pt., 50c.; per qt., 70c.; \$1.10 per ½ gal.; per gal., \$2.00.

Tobacco Dust for dusting only. Excellent for Lettuce and other plants to destroy soft, creeping insects. Per lb., 10c.; 25c. per 5 lbs.; per 10 lbs., 45c.; \$1.00 per 25 lbs.; 100 lbs., \$3.50.

Tobacco Dust (Special). For either fumigating or dusting. A specially prepared article; state which kind is wanted when ordering. 5 lbs., 35c.; 60c. per 10 lbs.; 25 lbs., \$1.35; \$2.00 per 50 lbs.; 100 lbs., \$3.50.

Tobacco Soap (Sulpho). A combination of tobacco extract and sulphur, fine for washing and spraying plants; dissolve in warm water. 3-oz. cake, 10c.; 20c. per 8-oz. cake; 10 lbs., \$2.50.

Tobacco Stems (Fresh). Used principally for fumigating and under benches in greenhouse. They may also be steeped in hot water and used as a spray. Per lb., 5c.; 20c. per 5 lbs.; per bu., 50c.; \$1.00 per bbl. bag; per large bale, \$2.25; \$7.00 per half ton; per ton, \$13.00.

To-Bak-Ine Fumigating Paper. Very much like Aphid Punk, which it resembles. It is used in exactly the same way as Aphid Punk. Per package, of 24 sheets, \$1.00; \$4.50 per 144 sheets; \$8.00 per box of 288 sheets.

Tree Tanglefoot. A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Per lb., 30c.; 3-lb. cans., 85c.; 10-lb. cans., \$2.65; \$4.80 per 20 lbs.; 40-lb. can., \$8.75.

Vaporite. Vaporite is a gray non-poisonous powder which, when it comes into contact with soil, gives off a vapor. This vapor kills all underground insects such as Wireworms, etc. Vaporite is for soil application—not for the leaves of the plant. Vaporite should be uniformly distributed on the surface or in the soil among the insects, so that the gas evolved may destroy them. 1 lb., 15c.; 60c. per 5 lbs.; 10 lbs., 90c.; \$2.00 for 25 lbs.; 50 lbs., \$3.75; \$6.75 per 100 lbs.

Vermine. A soil sterilizer, a germicide. Will destroy worms, maggots, etc. It is usually applied at the time of preparing potting soil. Dilute at the rate of one part to 400 parts of water and thoroughly soak the soil. 40c. per ½ pt.; pt., 65c.; \$1.00 per qt.; per gal., \$3.00.

Worm Destroyer (For Earth Worms). This preparation is made in England, where it is being applied to grass plots, putting greens, etc., with great success. It is a powder and is distributed over a given surface and soaked with water, which causes the worms to come to the surface, where they may be scooped up readily and further destroyed. It acts as a fertilizer as well as a worm destroyer.

Michell's Brand. 1 lb., 10c.; 45c. for 5 lbs.; 10 lbs., 75c.; \$1.50 per 25 lbs.; 50 lbs., \$2.50; \$4.00 for 112 lbs.; 560 lbs., \$18.75; \$34.00 for 1120 lbs.; 2240 lbs., \$62.50.

Carter's Brand. In 100-lb. bags only. \$5.00 per 100 lbs.; 500 lbs., \$19.00; \$37.50 per 1000 lbs.; 2000 lbs., \$70.00.

Worm Eradicator (Reade's Electric). This has been found to effectually destroy worms in greenhouse benches and in potted plants, or for outdoor use in the flower and vegetable garden, or among trees. 4-oz. bottle, 25c.; 8-oz. bottle, 50c.; \$1.00 per 24-oz. bottle; \$4.00 per gal.; \$17.50 per 5 gals.; 10 gals., \$35.00.

Worm Eradicator (Radix). Destroys worms in lawns, on tennis courts and putting greens. 1 gal. makes 100 gals. of treating liquid. \$2.00 per gal.; per 5 gals., \$9.25; \$37.50 per 25 gals. Powder form: 1 lb., making 30 gallons of liquid, 60c. per lb.; per 25 lbs., \$12.50; \$22.50 per 50 lbs.; per 100 lbs., \$40.00.

Vapor Cones (Lethorion Nicotine). An English invention providing nicotine in a solid form. The ideal fumigant for either large greenhouse or small conservatory. No. 1 will fumigate 1000 cubic feet, 15c. each, doz. \$1.50; No. 2 will fumigate 1500 cubic feet, 25c. each, doz. \$2.50; No. 3 will fumigate 2500 cubic feet, 30c. each, doz. \$3.00.

Zenoleum. A germicide and disinfectant. Liquid, ½ pt., 25c.; 50c. qt.; ½ gal., 90c.; \$1.50 gal. Powder, 25c. per 16-oz. pkg.

MICHELL'S HIGH GRADE FERTILIZERS

All Prices on
Fertilizers Subject
to Market Changes

Acid Phosphate. (See Phosphate.)

Animal Bone and Potash. An ideal fertilizer for almost any farm or garden crop. Apply at the rate of 400 to 600 lbs. per acre. Per 200-lb. bag, \$3.50; \$15.50 per ½ ton; ton, \$30.00.



Ashes (Canadian Hard Wood).

Apply 1000 lbs. per acre. For top dressing lawn and grass fields, it is applied to best advantage either in very early spring or late fall. 5 lbs., 20c.; 35c. per 10 lbs.; 25 lbs., 60c.; \$1.00 per 50 lbs.; 100 lbs., \$1.75; \$3.00 per 200-lb. barrel; 1000 lbs., \$13.50; \$26.00 per ton.

Ashes (Domestic Hard Wood). We had opportunity to secure a quantity of these Wood Ashes from a nearby concern, and on account of the savings in transportation we are able to furnish this article at a much reduced rate. It is rich in Potash (a very scarce article just now). Excellent for top-dressing lawns or grass fields, or for mixing with potting soil. Not less than 100 lbs. sold. \$1.25 per 100 lbs.; 500 lbs., \$5.50; \$10.50 per ½ ton; \$18.00 per ton (special price f. o. b. gathering point).

Asparagus Fertilizer (Pure Bone and Potash). A mixture that promotes the root and top growth. Apply 600 lbs. per acre. 85c. per 25 lbs.; 50 lbs., \$1.25; \$2.00 per 100 lbs.; 200 lbs., \$3.75; \$32.00 per ton.

Basic Slag. (See Phosphate.)

Blood (Dried). For indoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. 5 lbs., 30c.; 50c. per 10 lbs.; 25 lbs., \$1.25; \$2.00 per 50 lbs.; 100 lbs., \$3.75; \$6.75 per 200 lbs.

Blood Flour. Apply 200 lbs. per acre. Much like dried blood except that it is finer and acts almost instantly. 5 lbs., 40c.; 75c. per 10 lbs.; 25 lbs., \$1.50; \$2.50 per 50 lbs.; 100 lbs., \$4.75; \$9.00 per 200 lbs.

Bon Arbor. A concentrated chemical fertilizer similar to Bonora but less expensive; used in liquid form according to directions on the packages. 1 gal., \$2.00; \$7.50 per 5 gals. In powder form, dilutes 1 lb. of powder to 30 gallons of water. ½-lb. can, 30c.; per 1 lb., 50c.; \$1.80 per 5 lbs.; 50 lbs., at 25c. per lb.; 100 lbs., at 20c. per lb.; bbls. (200 to 250 lbs.), 18c. per lb.

Bone (Coarse Cracked). ¼ to ½ size. This is particularly used for fruit trees, grape vines, etc.; apply at the rate of from 3 to 5 lbs., at the base of each vine or tree, and work it into the soil. Per 200 lbs., \$6.00; \$27.00 per ½ ton; per ton, \$52.00.

Bone (Coarse Ground). Apply 600 to 800 lbs. per acre. Prepared from raw bone, exactly like bone meal except that it is not so fine, or quick in action; is used for the same purposes. 5 lbs., 30c.; 50c. per 10 lbs.; 25 lbs., 85c.; \$1.50 per 50 lbs.; 100 lbs., \$2.50; \$4.75 per 200 lbs.; per ton, \$42.50.

Bone Flour. Apply 600 lbs. per acre. Very fine, like dust, effective almost immediately; can be used for indoor or outdoor purposes. 5 lbs., 30c.; 50c. per 10 lbs.; 25 lbs., \$1.00; \$1.50 per 50 lbs.; 100 lbs., \$2.50; \$4.75 per 200 lbs.; ton, \$42.50.

Bone Flour (Superfine Grade). Effective immediately; excellent for roses, chrysanthemums, etc., in 100-lb. bags only. Per bag, \$3.00; 2 bags for \$5.50.

Bone Meal (Fine Ground). Apply 600 to 800 lbs. per acre. Made from raw bone, without any addition of materials. Extensively used for lawns, greenhouse and in any case where a moderately slow stimulant fertilizer is wanted. 3 lbs., 15c.; 25c. for 5 lbs.; 10 lbs., 40c.; 85c. per 25 lbs.; 50 lbs., \$1.35; \$2.25 per 100 lbs.; 200 lbs., \$4.00; \$35.00 per ton.

Bone Meal (Michell's Special Grade). We have been fortunate in locating a source from which we could get an unusual high grade of Bone Meal. By contracting for the entire output, the manufacturer agreed to let us have it. It is unusually rich in nitrogen and phosphoric acid, the two principal plant foods. We recommend this especially for lawns, gardens and greenhouses, or any purpose where a high-class fertilizer counts. Always specify Michell's Special Grade when ordering. 100 lbs., \$2.50; \$4.25 per 200 lbs.; ton, \$40.00.



Bonora. Directions for use are on each package. It may be used in either dry or liquid form; excellent for greenhouse and pot plants or vegetable forcing. 25c. per trial pkg. (by mail, 30c.); 50c. per lb.; \$2.50 per 5 lbs. If wanted by mail allow for postage.

Chrysanthemum Manure (Thomson's Special). Especially recommended and used by the leading private gardeners of England and America. Very highly concentrated. Can be used in liquid and in dry form. Per 28-lb. sack, \$4.50; \$7.50 per 56-lb. sack.

Clay's Fertilizer. An English chemical fertilizer, for forcing greenhouse plants and vegetables. It can be used in either dry or liquid form. 15c. per lb.; 5 lbs., 60c.; \$1.10 per 10 lbs.; 28 lbs., \$2.00; \$3.50 per 56 lbs.; 112 lbs., \$6.50.

Climax Lawn Sand. A unique combination of carefully dried and finely ground chemicals. Destroys weeds in lawns, 3½-lb. can, 40c.; 7-lb. can., 75c.; 14-lb. can., \$1.25; 28-lb. pkg., \$2.00; 56-lb. pkg., \$3.50; 112 lbs., \$6.00; 560 lbs., \$25.00; 1120 lbs., \$45.00.

Copperas (Sulphate of Iron). The low cost of this makes it very valuable for field as well as lawn use, it being one of the best articles for the destruction of Canada thistle and other weeds difficult to eradicate. Especially valuable for eradicating dandelion, sorrel, etc. It dilutes 100 lbs. to 52 gallons of water, enough to treat an acre, and is applied with a sprayer. While it destroys weeds it stimulates the grass. 25 lbs., 75c.; 50 lbs., 1.25; 100 lbs., \$1.75; 200 lbs., \$2.50; 500 lbs., \$5.75; 1000 lbs., \$11.00.

Cotton Seed Meal. Apply 600 lbs. per acre. Exceedingly rich in potash and ammonia, making it excellent for use as a grass and grain fertilizer; for putting greens it is invaluable. 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 85c.; \$1.50 per 50 lbs.; 100 lbs., \$2.75; \$25.00 per 1000 lbs.; ton, \$45.00.



Cow or Cattle Manure (Shredded).

One sack of this is equal to one cart-load of cow manure, is convenient to handle, making it possible for everyone to get this usually scarce article at all times. 5 lbs., 25c.; 40c. for 10 lbs.; 25 lbs., 75c.; \$1.25 per 50 lbs.; \$2.00 per 100 lbs.; 500 lbs., \$9.00; \$16.00 per 1000 lbs.; ton, \$30.00.

Cow Manure (Pulverized). A fine top dressing for lawns or gardens or in greenhouses; apply 1000 lbs. per acre.

In 100-lb. bags only, \$2.00; \$9.00 per 500 lbs.; ton, \$30.00.

Farmo-Germ. A nitrogen-gathering bacteria to be used when planting or sowing leguminous plants, as clover, peas, beans, etc. Garden size bottles, 25c. and 50c.; acre size bottles, \$2.00; \$6.00 per 5 acre bottle.

Dried Ground Fish. Apply 300 to 400 lbs. per acre. For truck and plant forcing this is recommended. Also used to mix with other fertilizers to increase the ammonia analysis. In 200-lb. sacks only, \$6.50; \$60.00 per ton.

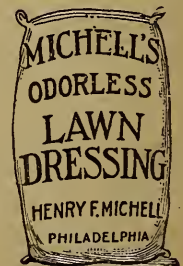
Guano Peruvian Substitute. Apply 600 lbs. per acre. This has a very high analysis of all necessary plant-food elements and is now extensively used in place of Peruvian Guano, which has become extremely scarce. It is recommended for all farm and vegetable crops. Price quoted upon application.

Horn Shavings. Used principally for mixing in potting soil, is rich in ammonia; especially valuable in chrysanthemum growing. 10c. per lb.; 5 lbs., 40c.; \$1.75 per 25 lbs.; 50 lbs., \$2.75; \$5.00 per 100 lbs.

Horse Manure (see Manure, page 233).

Kainit (Potash Salts). Apply about 800 to 1000 lbs. per acre. Excellent for potatoes, corn and other grains. On account of European complications we were unable to determine prices when this catalog went to press. However, we will fill orders at lowest prevailing rates.

Land Plaster. Apply about 1000 to 1500 lbs. per acre. For a top dressing on sour and wornout soils, also for mixing with Paris Green. 5 lbs., 15c.; 35c. per 25 lbs.; 50 lbs., 60c.; \$1.00 per 100 lbs.; 200 lbs., \$1.50; \$10.00 per ton.



ON PARCEL POST SHIPMENTS

If remittance accompanies order, it should include mailing charges.

COTTONSEED MEAL is an excellent Fertilizer for PUTTING GREENS and LAWNS

(hn)

Lawn Dressing (*Michell's Odorless*). Apply 500 to 600 lbs. per acre. A quick stimulant for lawns and grass lands. 5 lbs., 30c.; 50c. per 10 lbs.; 25 lbs., \$1.00; \$1.75 per 50 lbs.; 100 lbs., \$3.00; \$5.00 per 200 lbs.; 1000 lbs., \$21.00; \$40.00 per ton.

Lawn Sand (*Climax*). A single application is generally all that is needed. Select a bright sunny day, apply at the rate of 3½ lbs. to 150 square feet (a space 10 x 15). It fertilizes the grass, besides destroying the weeds. 3½ lbs., 40c.; 75c. for 7 lbs.; 14 lbs., \$1.25; \$2.00 for 28 lbs.; 56 lbs., \$3.50; \$6.00 for 112 lbs.

Lime (*Hydrated or Powdered*). This is a very fine article for distributing on grass. It promotes growth, gives the grass a rich color and has a tendency to prevent the growth of weeds. Apply one ton per acre on fields or ½ ton on lawns. Per 100-lb. sack, \$1.00; 500 lbs., \$4.50; 1000 lbs., \$7.00; ton, \$12.50. Special price in carload lots and f. o. b. factory.

Lime (*Lump or Land*). This is the screenings or forkings from the lime kilns and is extremely valuable for field use. In car lots only; price on application. Apply 2500 to 3500 lbs. per acre.

Limestone (*Pulverized*). For applying on sour or wornout soils at the rate of 1 ton per acre. Put up in 100-lb. bags (no smaller quantity sold), \$1.00 per bag; 1000 lbs., \$6.00; \$10.00 per ton. (\$6.25 per ton, f. o. b. factory.)

Humus (*Alphano Prepared*). An excellent article to incorporate with poor soil in the garden, greenhouse or in potting plants. When used in garden work, the ground should be covered with from ½ to 2 inches of Humus and spaded in. 5 lbs., 25c.; 25 lbs., 65c.; \$1.00 per 50 lbs.; 100 lbs., \$1.25; \$6.00 per 500 lbs.; 1000 lbs., \$10.00; \$16.50 per ton. Special price, f. o. b. factory and in carload lots. (See also Page 48 for price on Natural Humus.)

Manure (*Fresh Horse, Stockyard and Cow*). At short notice we can usually supply first-class horse, cow and stockyard manure in carload lots only. Prices quoted on request.

MAPES' CELEBRATED FERTILIZERS. No less than 200-lb. sacks of Mapes' fertilizers are sold. F. O. B. Factory F. O. B. Phila.

	200 lbs.	Ton	200 lbs.	Ton
Potato Manure	\$4.50	\$42.00	\$5.00	\$45.00
Corn Manure	4.00	37.00	4.25	40.00
Complete Manure, for general use.	5.25	49.00	5.50	52.50

Muriate of Potash. Apply 100 to 150 lbs. per acre, usually with other fertilizers. This must be used with great care, as it is very powerful. Excellent for potatoes, corn, grains, etc. Analysis, equal to 50% actual potash. Owing to European complications we are unable to state prices, we will fill orders at lowest quotations.

Nitrate of Soda. Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form dilute two ozs. to 1 gal. of water and do not apply oftener than twice a week. 1 lb., 10c.; 35c. per 5 lbs.; 10 lbs., 60c.; \$1.35 per 25 lb. bag; 50 lb. bag, \$2.50; \$4.75 per 100 lbs.; 200 lbs., \$8.75; \$42.50 per ½ ton; ton, \$80.00.

Mulford's Culture. For inoculating Clovers and other legumes of all kinds. When ordering, please state for what crop you desire to use it. Garden size (¼ acre), 50c.; 1 acre size, \$1.50; 5 acre size, \$5.00

Plant Food (*Michell's*). A highly concentrated chemical fertilizer for house use. 15c. per 6-oz. pkg.; 4 pkgs. by express (not prepaid), 50c. Allow for postage if wanted by mail.

Plant Food (*Bowker's*). Similar to the above in character and purpose, entirely odorless. 4-oz. pkgs., 15c.; 12-oz. pkgs., 25c. Allow for postage if wanted by mail.

Phosphate for Corn (*H. G. Potash Mixture*). Apply 500 to 600 lbs. per acre. This contains the necessary ingredients to produce a bumper crop of either field or sugar corn. Per 200 lbs., \$3.25; per ½ ton, \$13.00; \$25.00 per ton.

Phosphate, High-Grade Acid Tennessee or South Carolina Rock. 14%. Apply 1000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. In 200-lb. sacks only, \$2.50; \$19.00 per ton.

Phosphate, Michell's High-Grade Ammoniated. For all vegetable crops, grains, grass, etc. Apply 500 to 600 lbs. per acre broadcast. 5 lbs., 20c.; 35c. per 10 lbs.; 25 lbs., 60c.; \$1.10 per 50 lbs.; 100 lbs., \$2.00; \$3.50 per 200 lbs.; ton, \$28.50.

Phosphate (*Thomas' Basic Slag*). Used extensively for top dressing lawn, grass and grain lands; contains the proper elements to produce a rich luxuriant growth; apply 600 to 800 lbs. per acre. \$3.00 per 200-lb. bag; per ton, \$27.50.

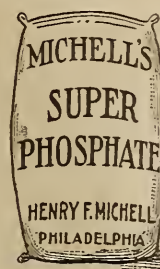
Potato Phosphate (*Michell's Hi-Grade*). Apply 400 to 600 lbs. per acre. The best fertilizer for potatoes, being extremely rich in every ingredient that potatoes thrive on. 25 lbs., 85c.; \$1.25 per 50 lbs.; 100 lbs., \$2.25; \$4.00 per 200 lbs.; ½ ton, \$19.00; ton, \$36.00.

Potato Manure (*Baugh's*). Apply at the rate of from 400 to 600 lbs. per acre. 25 lbs., 75c.; \$1.10 per 50 lbs.; per 100 lbs., \$2.00; \$3.50 per 200 lbs.; per ton, \$32.00.

Poudrette (*Native Guano*). Apply 1000 lbs. per acre. Extensively used for garden, lawns, in making compost and in fact wherever a good, quick acting fertilizer is wanted. It is odorless and easily handled. Poudrette is absolutely harmless to human beings. Applied as a fertilizer to any garden crop, 5 lbs., 20c.; 35c. per 10 lbs.; 25 lbs., 60c.; \$1.00 per 50 lbs.; 100 lbs., \$1.50; \$2.75 per 200 lbs.; 600 lbs., \$6.00; \$9.50 per 1000 lbs.; per ton, \$18.00.

Salt. For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs., per acre in early spring. 10 lbs., 20c.; 30c. for 25 lbs.; 50 lbs., 55c.; \$1.00 per 100 lbs.; 200 lbs., \$1.50; \$10.00 per ton.

Sheep Manure (*Wizard Brand*). Apply 1000 lbs. per acre. For garden, lawn or greenhouse use, nothing surpasses sheep manure, it is clean and easily handled, besides giving immediate results. 2 lbs., 15c.; 25c. per 5 lbs.; 10 lbs., 40c.; 75c. per 25 lbs.; 50 lbs., \$1.25; \$2.00 per 100 lbs.; 500 lbs., \$9.00; \$16.00 per 1000 lbs.; per ton, \$30.00.



Soot (*Imported Scotch*). This is used principally for bringing a good healthy color into the foliage of chrysanthemum and other greenhouse plants. Also destroys insects and grubs that work on and underneath the surface. 10c. lb.; 5 lbs., 35c.; \$1.00 per 25 lbs.; 112 lbs., \$3.75.

Sulphate of Ammonia. Apply 75 to 100 lbs. per acre only with other fertilizers deficient in nitrogen. This material will stimulate growth almost immediately. Analysis, equal to 25% of ammonia. 5 lbs., 35c.; 60c. for 10 lbs.; 25 lbs., \$1.40; \$5.00 for 100 lbs.; 200 lbs., \$9.75.

Sulphate of Potash. Apply 100 to 125 lbs. per acre, usually with other fertilizers. On account of its own strength it must be used judiciously. Valuable for root and grain crops. Analysis, equal to 50% of actual potash. Owing to European complications, we are unable to state prices; will fill orders at lowest quotations.

Tankage. This is usually applied to plants such as roses, etc., under glass. It is similar to dried blood. 5 lbs., 30c.; 50c. per 10 lbs.; 25 lbs., \$1.00; \$1.50 per 50 lbs.; 100 lbs., \$2.50; \$4.00 per 200 lbs.; ton, \$36.00.

Thomson's Special Flower, Vegetable and Vine Manure. Imported from England, this excellent chemical fertilizer is extensively used wherever it is desired to force flowers or vegetables. 15c. lb.; 5 lbs., 60c.; \$1.10 per 10 lbs.; 28 lbs., \$1.75; \$3.25 per 56 lbs.; 112 lbs., \$6.25.

Tobacco Stems. For fumigating, mulching and fertilizing these are invaluable. The chief fertilizing element in them is the potash. They make an excellent top dressing for lawns in winter. 1 lb., 5c.; 20c. per 5 lbs.; per bushel, 50c.; \$1.00 per barrel sack; large bales, \$2.25; \$7.00 per ½-ton; ton, \$13.00.

Wood Ashes. See Ashes at top of opposite page.

Wheat Fertilizer. Recommended especially for all grass and grain crops. Apply 500 to 600 lbs. per acre. 200 lbs., \$3.25; ½ ton, \$14.50; \$28.00 per ton.



234 **Michell's Rustic and Ornamental Bird Houses, etc.**

IN the past few years there has been revived a great interest everywhere in birds. There are many desirable species that would settle near our homes if we provided them with some suitable place for breeding. A few attractive Bird Boxes, placed where they can be easily found, either in trees or on posts, will induce our feathered friends to seek a lodging, help beautify the garden, and make an otherwise dull spot bright. The prices at which these houses are sold are so low that you can afford a number of them. To avoid errors, please order by number.

MICHELL'S WREN HOUSES

Place your Wren Houses near your dwellings; the wren is hardly ever known to nest off in the woods. If not disturbed, they will get very tame. These Wren Houses are made with 1-inch holes so that sparrows cannot disturb the occupants.



No. 11. Price, \$1.35
P. P. Weight, 3 lbs.

No. 13. Price, \$1.35
P. P. Weight, 3 lbs.

No. 9. Price, \$1.35
P. P. Weight, 3 lbs.

1 each of the above three houses \$3.75



No. 12. Price, \$1.35
Made to Swing



No. 28. The Wren "House Beautiful." Price, \$2.00
P. P. Weight, 4 lbs.



No. 50. Price, \$1.15
Hanging Wren House
P. P. Weight, 3 lbs.

GREY CEMENT WREN BOX

An attractive construction with removable top for cleaning out easily. It is storm and water-proof and no bird but a wren can get inside. Price, \$1.50 each. Parcel post weight, 5 lbs.



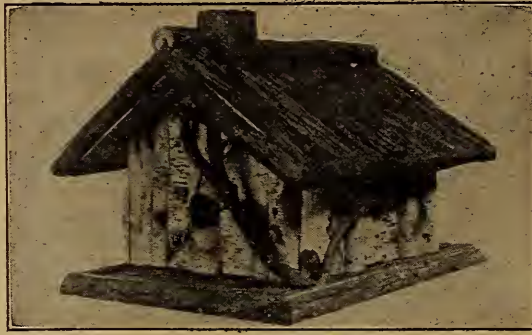
Cement Wren Box

MARYLAND WREN BOX

These are very useful as well as ornamental, for putting on trees or fastening on buildings. Painted red and green, very attractive. 35c. each; 3 for \$1.00. Parcel post weight, each 1 lb.



MARTIN HOUSES



No. 77. Price, \$6.00

A four-roomed house, made of cedar and white birch. The size of this house is 13x7x21 inches.

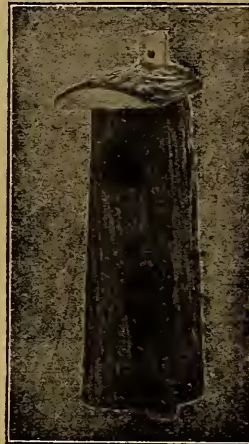
Suitable for placing on stone gate-posts or high stumps. No. 77, \$6.00. Not available.

Martin Houses should always be large, for the Martin is a bird that loves company. If well housed and well used, they come in large flocks year after year.



No. 8. 14-Room Martin House. Price, \$20
Not available

MISCELLANEOUS BIRD HOUSES

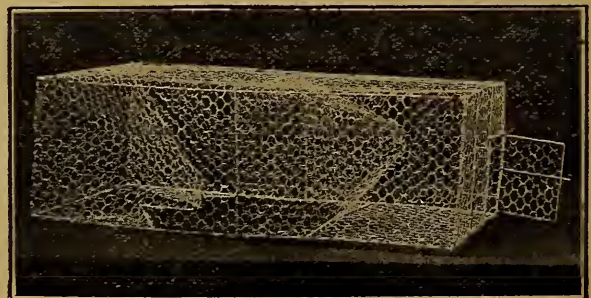


No. 22. Price, \$1.35
Houses for Woodpecker, Nuthatch, Chickadees, etc.
P. P. Weight, 3 lbs.



No. 25. Price, \$1.15
Houses for Woodpecker, Nuthatch, Chickadees, etc.
P. P. Weight, 3 lbs.

Most of the birds mentioned on this page are particularly useful in orchards and in gardens among shrubbery and flowers. Now that all the dead trees are being cut down, it leaves birds without a suitable place to nest, and on that account they are fast disappearing. It is, indeed, a very urgent necessity to provide these artificial habitations.



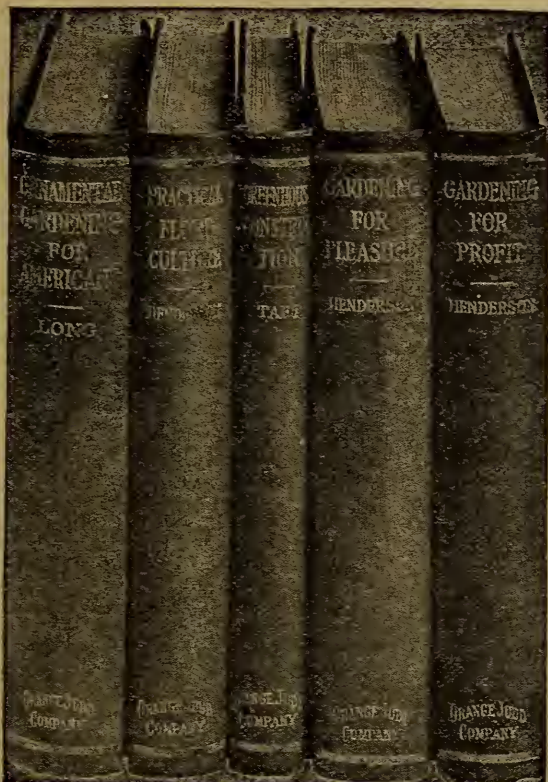
THE BEST SPARROW TRAP

We have tried this out and found it to be the best trap made. Scatter a little cracked corn and set trap right over it. You'll be surprised at the catch. \$4.00 each.

MICHELL'S BOOKS

On AGRICULTURE, HORTICULTURE, POULTRY 235
AND MATTERS PERTAINING THERETO

(Mailed Postpaid at prices quoted)



BOOKS ON FLOWERS, VEGETABLES, Etc.

Alfalfa Growing (F. D. Coburn).....	\$0.50
Agriculture, The Principles of (Bailey). A text-book..	\$1.25
Amateur's Practical Garden-Book. Contains directions for the growing of the things about the house and garden	1.00
Asparagus. (Hexamer). Its culture for home for market	.50
Berry Book (Biggle) .....	.50
Botany (Wright). Cloth .....	.50
Bulbs and Tuberous Rooted Plants (Allen)	1.50
Cabbage, Cauliflower and Allied Vegetables (Allen)....	.50
Carnation Culture (Lamborn). An up-to-date book	1.50
Gardeners and Florists' Annual. A book full of valuable information .....	.50
Chrysanthemum Manual (Smith). A complete guide..	.50
Daffodils and Narcissus (Kirby)	1.10
Encyclopedia of American Horticulture (Bailey) 6 vols..	36.00
Farm and Garden Rule Book (Bailey)	2.00
Farmer's Account Book (G. A. Boehne). Very practical and of great value	2.25
Farming (Practical) (Massy)	1.50
Fertilizers (Gregory). How to Make and When to Use..	.50
Flowers, How to Grow Them (Rexford).....	.50
Forcing Book (Bailey).	1.50
Four Seasons in the Garden (Rexford). Profusely illus..	1.50
Fruit Culturist American (Thomas)	2.25
Fruit Garden (Barry)	1.50
Gardening for Pleasure. A guide to the amateur in the fruit, flower and vegetable garden	1.50
Gardening for Profit. On vegetable gardening	1.50
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Greenhouse Management (Taft)	1.50
Garden Book (The practical) (Hunn and Bailey).....	1.00
Handbook of Plants (Henderson). A dictionary on plants.	3.00
Hardy Garden Book (Ely)	1.75
Home Floriculture (Rexford). A practical guide on flow- ering and ornamental plants for the amateur	1.00
House Plants and How to Succeed with Them. (Hill- house). A splendid book for ladies who grow plants....	1.00
How to Plan the Home Grounds (Parsons)	1.00

BOOKS ON FLOWERS, VEGETABLES, ETC. (Continued)

Landscape Gardening (Maynard).....	\$1.50
Lawns (By Barron).....	1.10
Mushroom Culture (Robinson). An English work .....	.50
Mushrooms, How to Grow (Falconer).....	1.00
Nursery Book (Bailey). A complete guide.....	1.50
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Ornamental Gardening (Long)	1.50
Practical Floriculture (Henderson).....	1.50
Principles of Fruit Growing (Bailey)	1.50
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Pruning Book (Bailey)	1.50
Peanut Culture (Jones)50
Rhubarb Culture (Morse)50
Practical Book of Outdoor Rose Growing (Thomas)....	4.00
Rose Culture (Ellwanger). A standard book on Roses..	1.25
Small Fruit Culturist (Fuller)	1.00
Spraying for Profit (Weed). .....	.20
Strawberry Culture (Fuller). Contains all information..	.25
Sweet Pea Culture (Michell). Free with orders.	
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Soils (By Burkett).	1.25
The Small Country Place (Maynard). Well illustrated..	1.50
Tomato Culture Paper, 30c.; cloth, 50c.	
Vegetable Gardening (Baily).	1.50
Vines and How to Grow Them (All kinds)	1.10
Violet Culture (by Galloway)	1.50
Violet Culture (Saltford)25
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Wild Garden Book (Fitzherbert)	1.00
Wild Flowers (Lounsberry)	1.90
Winter Garden Book (Fish)	1.00

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A. B. C. of Bee Culture (Root)	\$2.00
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Chick Book (The). Tells how to obtain good hatches. 80 pages	.50
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Dog, The (Maxtee). Cloth, 50c.; paper, 25c.	
Ducks and Geese gives all details. 104 pages.....	.75
Ducks, Indian Runner (Yoder) .....	.50
Egg Record and Account Book. 32 pages .....	.25
Eggs and Egg Farms. The lengthy chapters on pedigree breeding will be found invaluable to breeders of all strains.	.50
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Leghorns. The best mating schemes clearly described.....	1.00
Million Egg Farm (The)	1.00
Money in Broilers and Squabs (Boyer).....	.50
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Plymouth Rocks (The). Barred, Buff and White. Special- ists describe mating and breeding methods. 160 pages....	1.00
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Poultry Accounting (Alexander)50
Poultry Craft	1.50
Poultry Houses and Fixtures shows plans of all practical houses and designs for inside fixtures. 96 pages.....	.50
Poultry Production (Lippincott)	2.00
Reliable Poultry Remedies.....	.25
Rhode Island Reds (Hale) .....	.75
Squab Book (Practical) .....	.50
Squab Book (Howard) .....	.50
Standard of Perfection. Explains all the scoring points....	2.00
Successful Poultry Keeping contains complete and prac- tical, reliable information on the subject. 176 pages, illus.	1.00
Turkeys. Every detail of the business explained. 96 pages.	.75
Winter Eggs (How to Get Them) (Robinson).....	.50
Wyandottes, The. (Grevenstedt) All strains. 160 pages..	1.00
Minorcas (Northrup) .....	.50

We can also furnish any other books (horticultural or agricultural publications) not mentioned here that might be desired (hc)

ALL PRICES SUBJECT TO MARKET CHANGES

Alfalfa Meal. 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 75c.; \$1.25 per 50 lbs.; 100 lbs., \$2.25.

Animal Meal (Bowker's). 5 lbs., 20c.; 40c. per 10 lbs.; 75c. for 25 lbs.; 50 lbs., \$1.40; \$2.75 per 100 lbs.; 500 lbs., \$13.00.

Animal Regulator (Pratt's). 25c. and 50c. pkg.; 12 lbs., \$1.75.

Barley. Price, 10c. per quart. (Larger quantity, price on application.)

Bone (Coarse Ground). For feeding grown fowls. 5 lbs., 25c.; 40c. for 10 lbs.; 25 lbs., 75c.; \$1.50 per 50 lbs.; 100 lbs., \$2.75; \$12.50 for 500 lbs.

Bone (Meal and Fine Grade). For feeding chicks and pullets and using in the mash. 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 75c.; 50 lbs., \$1.50; 100 lbs., \$2.75.

Bran (Wheat). For mash, etc. 5 lbs., 20c.; 55c. per 25 lbs.; 100 lbs., \$2.00.

Broken Rice. 1 lb., 6c.; 30c. for 5 lbs.; 10 lbs., 55c.; \$1.25 for 25 lbs. (Price in large quantities on application.)

Buckwheat. Price, 10c. per quart. (Larger quantity, price on application.)

Cake Meal. 5 lbs., 25c.; 85c. per 25 lbs.; 100 lbs., \$3.15.

Calf Meal (Blatchford's). \$2.00 per 50 lbs.; 100 lbs., \$4.00.

Canada Peas. Price, 10c. per quart. (Prices on large quantities on application.)

Cat Food (Spratt's). Per carton, 25c.

Catnip Balls. 10c. each; doz., \$1.10.

Charcoal. Two grades, **fine** and **coarse**; state which you wish when ordering. Price, 1 lb., 7c.; 30c. for 5 lbs.; 10 lbs., 45c.; 75c. for 25 lbs.; per 100 lbs., \$2.50; \$10.00 for 500 lbs.

Chicgrain (Spratt's). Per carton, 25c.; 5 lbs., 40c.; 70c. per 10 lbs.; 25 lbs., \$1.25; 50 lbs., \$2.10; 100 lbs., \$4.00.

Chick Food (Cornless). 5 lbs., 25c.; 45c. for 10 lbs.; 25 lbs., \$1.00; \$3.00 per 100 lbs.

Chick Food (Michell's). 5 lbs., 25c.; 40c. for 10 lbs.; 25 lbs., 90c.; \$1.50 for 50 lbs.; \$2.73 per 100 lbs.; 500 lbs., \$12.50.

Chick Food (Park and Pollard). 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 75c.; \$1.40 per 50 lbs.; 100 lbs., \$2.75.

Chick Food (Pratt's). For newly hatched chicks. 1 lb., 10c.; 3 lbs., 25c.; 6½ lbs., 50c.; \$1.00 per 14 lbs.

Chick Manna. Price, 1 lb., 10c.; 5 lbs., 40c.; 15 lbs., \$1.10; 60-lb. case, in bulk, \$4.20.

Chick Meal (Spratt's No. 5). 25c. per carton; 45c. per 5 lbs.; 10 lbs., 80c.; \$1.85 per 25 lbs.; 50 lbs., \$3.50; \$6.75 100 lbs.

Climax Condition Powder (Rust's). Price, 25c., 50c., \$1.00 and \$1.50 per package.

Condition Powder (Sheridan's). A natural stimulant and persuader for the hen. 15c. package; 2¼-lb. can, 75c.

Condition Tablets (Pratt's). 25c. and 50c. per box.

Conkey's Laying Tonic. 25c. pkg.

Conkey's Starting Food for Baby Chicks. 1 lb., 10c.; 3 lbs., 25c.; 50c. for 6½ lbs.; 14 lbs., \$1.00.

Corn Meal (Special Process). 5 lbs., 20c.; 35c. for 10 lbs.; 70c. for 25 lbs.; 50 lbs., \$1.25; 100 lbs., \$2.50.

Cow Kure. A tonic for cows and heifers. 50c. per can.

Cracked Corn. 1 lb., 4c. 5 lbs., 20c.; 35c. for 10 lbs.; 50 lbs., \$1.20; \$2.35 per 100 lbs.

Crissell (Spratt's). 5 lbs., 35c.; 60c. per 10 lbs.; 25 lbs., \$1.25; \$4.75 per 100 lbs.

Cut Clover Hay. 5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 75c.; \$1.25 for 50 lbs.; 100 lbs., \$2.50; 500 lbs., \$11.25.

Developing Food (Michell's). 5 lbs., 25c.; 40c. for 10 lbs.; 25 lbs., 75c.; \$1.50 per 50 lbs.; 100 lbs., \$2.50; \$11.25 for 500 lbs.

Dog Cakes (Spratt's). 3-lb. pkg., 25c.; 6-lb. pkg., 50c.; 25-lb. box, \$2.00; 50-lb. box, \$3.50; 100-lb. box, \$6.50.

Dog Cakes (Maltoid Milkbone). 10c. and 25c. per carton; 10 lbs., 90c.; \$2.10 for 25 lbs.; 50 lbs., \$3.95; \$7.00 per 100 lbs.

Egg Maker and Chick Grower (Lee's). 2½ lbs., 20c.

Fish, Dried Ground. 5 lbs., 25c.; 45c. for 10 lbs.; 25 lbs., \$1.00; \$1.90 for 50 lbs.; 100 lbs., \$3.50.

Egg Producer (Rust's). 1 lb., 25c.; 50c. for 2½ lbs., 6 lbs., \$1.00.

Gluten Meal. 5 lbs., 20c.; 30c. for 10 lbs.; 60c. for 25 lbs.; 50 lbs., \$1.10; 100 lbs., \$2.10.

Grit (Mica Crystal). Fine, medium and coarse 5 lbs., 15c.; 40c. for 25 lbs.; 50 lbs., 60c.; 100 lbs., 85c.; \$3.50 per 500 lbs.; ½ ton, \$6.50; \$12.00 per ton. (Special price f. o. b. factory.)

Grit (Red Cross Health). For pigeons. 5 lbs., 20c.; 35c. for 10 lbs.; 25 lbs., 50c.; 90c. for 50 lbs.; 100 lbs., \$1.50; ton, \$22.50.

Ground Oats. 5 lbs., 25c.; 40c. for 10 lbs.; 75c. for 25 lbs.; 100 lbs., \$2.75.

Growing Food (Park and Pollard). 5 lbs., 25c.; 50c. per 10 lbs.; 25 lbs., 80c.; \$1.50 per 50 lbs.; 100 lbs., \$2.75.

Hemp Seed. 10c. lb.; 40c. for 5 lbs.; 70c. for 10 lbs.; 25 lbs., \$1.65.

Hulled Oats. 6c. per lb.; 30c. per 5 lbs. (Prices on larger lots on application.)

Kaffir Corn. 10c. qt. (Price on larger quantities on application.)

Linseed Meal. 12c. per lb.; 50c. per 5 lbs.; 10 lbs., 75c.; \$1.80 for 25 lbs.

Mash Food (Michell's Meat). 5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 75c.; \$1.25 per 50 lbs.; 100 lbs., \$2.25; \$11.00 per 500 lbs.

Mash Food (Park and Pollard). 5 lbs., 25c.; 40c. for 10 lbs.; 25 lbs., 75c.; \$1.40 per 50 lbs.; 100 lbs., \$2.75.

Mash Food (Michell's Fish). 5 lbs., 25c.; 40c. for 10 lbs.; 25 lbs., 75c.; \$1.25 for 50 lbs.; 100 lbs., \$2.25; \$11.00 for 500 lbs.

Meat (Prepared). Price, 5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 90c.; 50 lbs., \$1.75; 100 lbs., \$3.25; 500 lbs., \$15.75; ½ ton, \$30.00; \$55.00 per ton.

Middlings. 5 lbs., 20c.; 10 lbs., 30c.; 25 lbs., 60c.; 100 lbs., \$2.35.

Milk Albumen. 5 lbs., 30c.; 55c. per 10 lbs.; 25 lbs., \$1.25; \$2.00 per 50 lbs.; 100 lbs., \$3.50.

Millet (For Feeding). 8c. lb.; 5 lbs., 25c.; 10 lbs., 45c.; 25 lbs., \$1.00.

Mustard (Poultry). 1½ lbs., 35c.; 65c. for 3 lbs.; 5 lbs., \$1.00; \$1.95 for 10 lbs.

Oat Meal (Pin Head). 5 lbs., 35c.; 65c. for 10 lbs.; 25 lbs., \$1.50; \$5.00 per 100 lbs.

Oyster Shell. 5 lbs., 10c.; 30c. for 25 lbs.; 50 lbs., 50c.; 75c. per 100 lbs.; 500 lbs., \$3.25; \$10.00 per ton.

Pheasant Meal (Spratt's). No. 12 Fine; No. 5 Coarse. State which is wanted when ordering. 5 lbs., 45c.; 80c. per 10 lbs.; 25 lbs., \$1.85; 50 lbs., \$3.50; 100 lbs., \$6.75.

Poultry Food (Spratt's No. 3). 5 lbs., 45c.; 80c. for 10 lbs.; 25 lbs., \$1.85; \$3.50 per 50 lbs.; \$6.75 per 100 lbs.

Poultry or Scratch Food (Michell's). 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 70c.; \$1.15 per 50 lbs.; 100 lbs., \$2.25; \$11.00 per 500 lbs.; 1000 lbs., \$21.00; \$41.00 per ton.

Poultry or Scratch Food (Park and Pollard). 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 75c.; \$1.40 per 50 lbs.; 100 lbs., \$2.60.

Pratt's Poultry Regulator. Price, 8-oz. packages, 10c.; 26-oz. packages, 25c.; 50c. per 4-lb. package; 12 lbs., \$1.25; \$2.50 for 25 lbs.; 50 lbs., \$5.00; \$9.00 per 100 lbs.

Prepared Pigeon Food. 5 lbs., 25c.; 40c. per 10 lbs.; 25 lbs., 75c.; \$1.25 per 50 lbs.; 100 lbs., \$2.50; \$11.75 per 500 lbs.

Puppy Cakes (Spratt's). 3-lb. pkg., 25c.; 6-lb. pkg., 50c.; 25-lb. box, \$2.00; 50-lb. box, \$3.65; 100-lb. box, \$7.00.

Puppy Cakes (Maltoid Milkbone). 10c. and 25c. per carton; 10 lbs., 90c.; \$2.25 per 25 lbs.; 50 lbs., \$4.25; \$8.00 per 100 lbs.

Panacea (Dr. Hess). 1½ lbs., 25c.; 60c. for 5 lbs.; 12 lbs., \$1.25; \$2.50 for 25 lbs.

Salt Cat. A tonic for pigeons. Price, 10c. per brick; 60c. for 6; \$1.10 per doz.

Scratch or Poultry Food (Spratt's). 5 lbs., 25c.; 45c. per 10 lbs.; 25 lbs., 75c.; \$1.40 per 50 lbs.; 100 lbs., \$2.75.

Sunflower Seed. 10c. qt.; 4 qts., 30c.; 55c. peck; bushel, \$2.00.

Vetches or Tares. For pigeon feeding. Ask for quotations. Prices vary.



MICHELL'S HIGH GRADE POULTRY SUPPLIES, Etc. ²³⁷

LICE DESTROYERS, DISINFECTANTS, Etc.



A complete description of the following goods will be found in our Poultry Supplies Catalog—Mailed free

Carboletta. A carbolic solution for painting roosts, spraying, etc. 40c. qt.; ½ gal., 65c.; \$1.00 per gal.
Carbolineum (*Genuine Arvenarius*). A poultry house disinfectant, louse and mite destroyer, excellent wood preservative; in gal. cans only. \$1.50 per gal.; 5 gals., \$7.00.
Cassel's Roup Cure. To be used in the mash or other soft feed. ½ lb., 20c.; 40c. per lb. (Allow for postage if wanted by mail.)
Condition Tablets (*Pratt's*). 25c. and 50c. pkg.
Conkey's Canker Special. An effective remedy. 50c.
Conkey's Cholera Cure. 25c. and 50c. pkg.
Conkey's Chicken Pox Remedy. 50c. pkg.
Conkey's Gape Cure. For young chicks. 50c. pkg.
Conkey's Lice Fix. For destroying mites, lice, etc. 50c.
Conkey's Lice Killer (*Liquid*). For painting roosts, poultry houses, etc. Qt., 35c.; 60c. ½ gal.; 1 gal., \$1.00.
Conkey's Lice Powder. A sure destroyer. 10c., 25c., 50c. and \$1.00 pkg.
Conkey's Noxi-cide. A germ destroyer. 35c. pt.; 1 qt., 60c.; \$1.00 for 2 qts.; 1 gal., \$1.50.
Conkey's Roup Cure. The most widely used of the roup remedies; administered in the drinking water. 25c., 50c. and \$1.00 per box.
Conkey's Scaly Leg Remedy. A sure cure. 50c.

Conkey's White Diarrhoea Cure. For little chicks; results always satisfactory. 25c. and 50c. pkg.

Death to Lice (*Lambert's*). For dusting fowls and nests. 5-oz. size, 10c.; 25c. for 15 ozs.; 48 ozs., 50c.; \$1.00 per 100-oz. pkg.

Dr. Hess' Instant Louse Powder. Used with great success on poultry or domestic animals. Also useful in the garden and on vegetables. 1 lb., 25c.

Death to Lice Ointment. For head lice on small chicks. 10c. and 25c. box.

Gape Worm Extractors. Two styles: Hallowell, 10c. each; \$1.00 per doz. Pilling, 25c. each.

Germathol (*Pratt's*). A germicide and disinfectant. 25c., 50c. and \$1.50 per bottle.

Germozone (*Lee's*). One of the best germicides in existence, can be used on animals as well as poultry in liquid or tablet form. 50c.

Knox Lice Expelling Nest Eggs. 5c. each; doz., 50c.; \$3.75 per 100.

Lee's Lice or Insect Powder. Dust it in the nests, around the roosts and on the dropping boards. ¼-lb. sifter-top boxes, 25c.; \$2.75 per doz.

Lee's Liquid Lice Killer. Sprayed or painted around poultry house will keep away all vermin and disease. 1 qt., 35c.; 60c. for 2 qts.; gal., \$1.00; \$4.00 for 5 gals.

Madoc Gape Cure. ½ lb., 20c.; 1 lb., 35c. (Allow for postage if wanted by mail.)

Mitchell's Lice Powder. The best preparation of its kind ever put up. Sifter top carton. 1 lb., 25c. each; \$2.50 per doz. pkgs.

Oculum. For cholera, roup and diarrhoea. 50c. and \$1.00 per bottle.

Persian Insect Powder. ¼ lb., 15c.; 25c. ½ lb.; 1 lb., 45c.

Pratt's Disinfectant. For spraying poultry houses, stables, etc. 35c. qt.; ½ gal., 60c.; \$1.00 per gal.

Pratt's Lice Killer (*Liquid*). For spraying nests, roosts, houses, etc. 35c. qt.; ½ gal., 60c.; \$1.00 gal.

Pratt's Louse Powder. For dusting nests, fowls, chicks, etc. 25c. and 50c. per box.

Pratt's Roup Remedy (*Pills*). For roup, canker, etc. 25c., 50c. and \$1.00 per box.

Pratt's Sore Head Remedy. For chicken pox, etc. 25c. and 50c. box.

Pratt's White Diarrhoea Remedy. For baby chicks. 25c. and 50c.

Rat Corn. Kills and mummifies rats and mice. 15c., 25c., 50c. and \$1.00 size cans.

Rax. The scientific destroyer of rats and mice. Positively is not injurious to domestic animals. 50c. per bottle.

Roup Syringe. For administering liquid roup remedies in the nostrils or throat. Price, 10c. each.

Rust's Havens Climax Powder. For cholera, gapes, etc. 25c., 50c. and \$1.00 per box.

Rust's Roup Cure. Used in the drinking water. 4 ozs., 25c.; 9 ozs., 50c.; 20 ozs., \$1.00.

Spratt's Dog Soap. 20c. per cake; post-paid, 25c. per cake.

Sulphur Candles. Large size. 20c. each; per doz., \$2.00. Small size, 10c. each; per doz., \$1.00.

Thymo Cresol (*Sheep Dip*). An excellent disinfectant, deodorizer and purifier. 4 ozs., 25c.; 40c. for 8 ozs.; 1 pt., 50c.; 70c. per qt.; per ½ gal., \$1.10; \$2.00 per gal.

Tobacco Dust. For dusting on roosts, nests, etc., to keep away vermin. 10c. per lb.; 5 lbs. for 25c.; \$1.00 for 25 lbs.; 100 lbs., \$3.50.

Tobacco Stems. For making nests, etc. 5c. lb.; 5 lbs., 20c.; 50c. per bu.; per bbl. bag, \$1.00; \$2.00 per bale; per ½ ton, \$6.50; \$12.00 per ton.

Whiting's Roupene. An infallible preventative and sure cure for all cases of Roup, Canker, Diphtheria, Chicken Pox or Sore Head, Gapes, Colds and all diseases of respiratory organs of fowls or pigeons. Will cure dogs of the sniffles. Price, 50c. and \$1.00 per bottle.

Whiting's White Diarrhoea Remedy. 50c. per bottle.

Zenoleum Lice Powder. For dusting hens and nests; fine for brooding hens. 25c. per 16-oz. pkg.

Zenoleum Liquid. Dilute one part Zenoleum to one hundred parts water. It is non-poisonous and is not irritating or inflammable. Should be used freely around barns and poultry houses. ½ pt., 25c.; 50c. qt.; ½ gal., 90c.; \$1.50 per gal.; \$6.25 per 5-gal. can.

RECLEANED BIRD SEEDS, Etc.

Prices on Bird Seeds Subject to Market Changes

	Qt	Lb.	5 Lb.	10 Lb.	25 Lb.
Ants Eggs	\$0.50				
Canary. Plain Sicily.....	\$0.12	\$0.50	\$0.90	\$2.15	
Canary, Mixed .....	.12	.45	.85	2.10	
Hemp Seed .....	.10	.40	.70	1.65	
Millet Seed (Imported) ..	.08	.25	.45	1.00	
Rape Seed (German) ....	.10	.45	.80	1.75	
Unhulled Rice .....	.10	.45	.80	1.90	
Parrot Food (<i>Spratt's</i>) ..					10c. pkg.; \$1.20 doz.
Bird Manna. Keeps Canary Birds in prime condition. Pkg., 15c.					
Cuttle Fish Bone. 3c. each; 50c. per lb.					

Lettuce Seed. 5c. per oz.; 10c. per ¼ lb.; 1 lb., 20c.
Maw Seed. ¼ lb., 7c.; 20c. 1 lb.; 5 lbs., 80c.
Song Restorer for Canaries, revives the desire to be lively and sing more lustily. Price, 10c. per bottle; per doz., \$1.00.

SUNFLOWER SEED

We are very large handlers of this important food for parrots. Our customers may depend upon getting a very choice article. 10c. per qt.; 4 qts., 30c.; 55c. per peck; per bushel (25 lbs.), \$2.00.



Prices on Bird Seeds are subject to Market Changes

INCUBATORS, BROODERS, ETC.



PRAIRIE STATE INCUBATOR

The series A Incubator is the Sand Tray Type with Nursery Attachment and possessing every feature of merit that any other make offers, including the Fire Underwriters certificate label on the heater, which makes it possible to use the incubator in any building without increasing the rate of insurance.

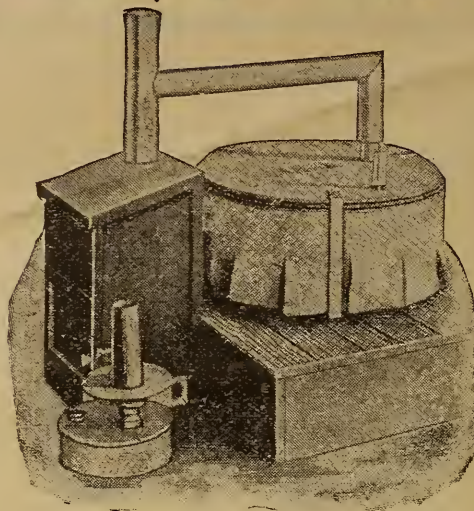
No.	Hen Egg Capacity	Duck Egg Capacity	Price
Diffusive Style....	100	75	\$18.00
Series A, No. 1.....	150	115	22.50
Series A, No. 2.....	240	200	32.00
Series A, No. 3.....	390	300	38.00
Keystone Style ...	60	40	9.00
I	100	75	12.00

NEWTOWN GIANT INCUBATORS AND BROODERS

We are able to quote lowest prices on these, being direct representatives of the manufacturer.

GEM HOT WATER INCUBATOR

50 Egg capacity.....\$6.00



THE UNIVERSAL HOVER

The name implies correctly what the Hover is. It can be attached to any old box, piano case or a brooder you may be using at the present time. Just the thing for one who wants the least expensive but at the same time most efficient brooding device. For equipping large or commercial poultry plants these are invaluable.

With lamp box, complete without regulator, \$7.00. Without lamp box, complete without regulator, \$5.50.

Heat Regulator for Hovers, \$1.00 each.

Parcel Post Weight, 3 lbs.

Prairie State Portable Hover, with heat regulator, \$9.00

PRAIRIE STATE COLONY BROODERS

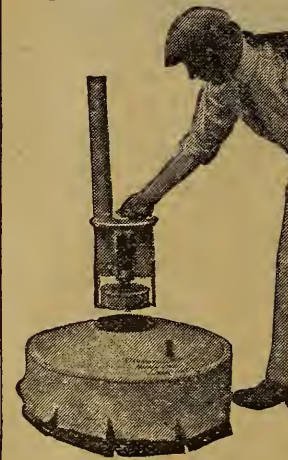
No. 1—3 feet wide, 6 feet long, 3 feet high in front, 2 feet high in back (without heat regulator).....\$20.00

No. 2—2½ feet wide, 5 feet long, 2½ feet high in front, 20 inches high in back (without heat regulator)..... 16.00

No. 3—27 inches wide, 4 feet high, 28 inches high in front, 19 inches high in back (without heat regulator).. 12.00

INTERNATIONAL SANITARY HOVER

It can be transported with ease from place to place. It is metal throughout, and is therefore vermin-proof as well as fire-proof. Unlike the wooden hover, it will not absorb dirt and hold it. It cannot be burned nor broken and cannot warp and fall apart. It provides overhead heat so chicks cannot crowd. Provides nearly 200 square inches more hovering space than any other hover made. It will not only raise more chicks than any other Brooding device, but will raise also the winter supply of sprouted oats. Price, \$8.50.



ARTICLES FOR THE STABLE AND DAIRY

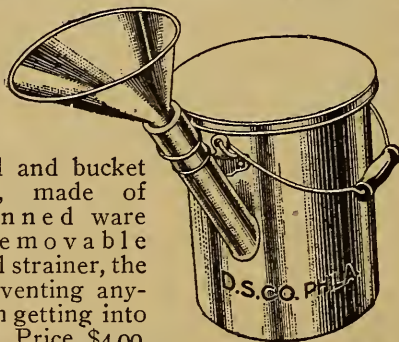
WATER PAILS

Heavy Galvanized Iron, 12 qt., 35c.

White Cedar, 12 qt. capacity, 75c.

J. I. C. Extra heavy; white cedar, 16 qts., \$1.00.

PERFECT MILKING PAIL



A stool and bucket combined, made of heavy tinned ware with a removable cover and strainer, the latter preventing anything from getting into the milk. Price, \$4.00

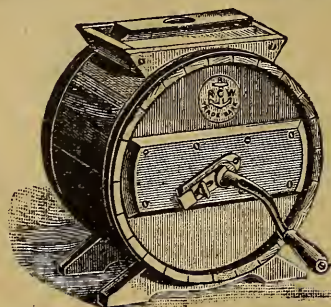
CALF WEANERS

Easily attached, cannot harm either the calf or the cow.

No. 1, for calf under one year, 35c. P. P. Wt., 4 ozs.

No. 2, for calf over one year, 50c. P. P. Wt., 6 ozs.

No. 3, for cows, 75c. P. P. Wt., 10 ozs.



RICHMOND BUTTER CHURNS

First quality white cedar, carefully finished, easily cleaned.

No.	Price
1-3 gals	\$2.00
2-4 "	2.40
3-7 "	3.00

BUTTER PAPER

In packages of 1000 sheets only.

6x8 inches ...	\$0.50	7x9 inches ...	\$0.65
6x9 inches ...	.55	8x11 inches ..	.85

P. P. Weight, per 1000 sheets, 5 lbs.

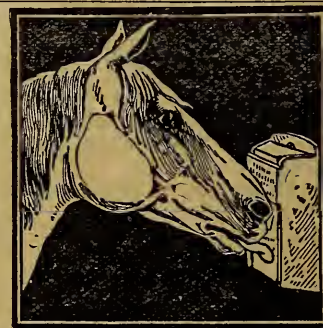


BULL RINGS

Made of copper, working on a screw hinge, complete with screw fastener as shown. Price, 35c. P. P. Weight, 4 ozs.

BUTTER COLORING

Harmless and guaranteed under the Pure Food and Drugs Act; 25c., 50c. and \$1.00 per bottle; per gal., \$2.25. Not mailable.



SALT BRICKS

For Dairy Cows, Horses and other animals. This is an essential to general good health in stables among horses and cattle, fastened on the wall, it is accessible at all times and remains clean. Per brick, 25c.; \$2.25 per doz. P. P. Weight, each, 5 lbs.

Salt Brick Holders. 35c. each; \$3.25 doz. Parcel Post Weight, each, 3 lbs.

SPECIAL NOTE.

We publish a Catalog on Poultry Supplies which is free on application; also ask for a Prairie State Catalog on Incubators and Brooders.

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TARGET BRAND PRODUCTS

Under this trade-mark are manufactured various brands of Horticultural and Agricultural Insecticides and Preparations. Our experience with them covers a period of almost ten years, during which time we have had occasion to try them out in every possible way. They are considered the best in their class, and are used and indorsed by up-to-date fruit-growers and agriculturists everywhere.

FOR PERFECT FRUIT

Target Brand Scale Destroyer Not available

It is an oil which is instantly soluble in water, and passes through any spray-pump nozzle without clogging. It is economical, quickly prepared, easily applied, and does its work rapidly and effectively. Indorsed and recommended by fruit-growers everywhere.

One gallon makes twenty gallons of solution ready to apply. For use on dormant trees only (while the leaves are off during fall, winter and spring).

Target Brand Scale Destroyer costs 35 cts. per qt., 65 cts. per half gal., \$1 per gal., \$3.75 for 5 gals., \$7.50 for 10 gals., \$13 for 25-gal. barrel, \$25 for 50-gal. barrel.

Lime-Sulphur (Liquid) Not available

This is now extensively used for spraying against scale; desirable for peach trees and other stone fruits. It is a fungicide as well as scale-destroyer, and is highly effective. Dilute for dormant trees one gallon to twelve gallons of water, either hot or cold. Mixes instantly and does not separate.

Qt. 25 cts., 1/2 gal. 45 cts., gal. 75 cts., 5 gals. \$2.25, 10 gals. \$3.75, 25 gals. \$6, 50 gals. \$9.

Target Brand Arsenate of Lead (Paste)

For spraying trees and shrubs against the attacks of leaf-biting insects of all kinds; especially valuable for spraying to destroy the codling-moth. It comes in paste form, and dilutes one pound to 25 gallons of water. If apples, pears, quinces, peaches and stone fruits are sprayed with this after the blossoms fall and during the period the fruit is developing, there is a marked absence of rot, wormy fruit and other blemishes. **Lb. 25 cts.; 80 cts. for 5 lbs.; 10 lbs. \$1.50; \$3 for 25 lbs.; 50 lbs. \$5.50; \$10 per 100 lbs. Allow postage if wanted by Parcel Post.**

Target Brand Bordeaux-Arsenate

This is a combination of bordeaux mixture and arsenate of lead. Its use combines an application of fungicide and insecticide at one time. It is the ideal preparation to use at intervals while the fruit is developing on trees such as apples, stone fruits, etc. Where this is used intelligently, 100 per cent quality fruit will be the rule oftener than the exception. We cannot recommend it too highly. A pound dissolves in five gallons of water. It sticks to the foliage and will not wash off for a long period. **Lb. 20 cts.; 80 cts. for 5 lbs.; 10 lbs. \$1.40; \$3.25 for 25 lbs.; 50 lbs. \$5.50; \$10 for 100 lbs. Allow postage, at your zone rate, if wanted by Parcel Post.**

See also pages 230 and 231 for a complete line of Insecticides

TARGET BRAND WEED KILLER Not available



Liquid Weed Killer can effectively be distributed with a watering-can or in a sprinkling-wagon.

An effective combination of high-grade chemicals which, diluted in water at one to forty, destroys the roots as well as the tops of all weeds and vegetation to which it is applied.

One gallon diluted with forty gallons of water is sufficient to cover 100 to 150 square yards; and one or two applications are sufficient for an entire season. Does not injure marble, cement or fencing. The best time for applying is just after a rain.

Prices of Target Brand Weed Killer

Qt. (makes 41 qts.).....	\$0 45	10-gal. can (makes 410 gals.)	\$9 50
1/2 gal. (makes 20 1/2 gals.)...	65	25-gal. can (makes 1,025 gals.).....	20 00
1 gal. (makes 41 gals.).....	1 15	50-gal. barrel (2,050 gals.)	37 50
5-gal. can (makes 265 gals.)	5 00		



A good Spray Apparatus is as essential for effectiveness as the material itself. On pages 228 and 229 will be found an up-to-date list and descriptions of spraying machinery.

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